## EXHIBIT 16

## Excerpts of First Deposition of Dr. Hal J. Singer

Page 1

## IN THE UNITED STATES DISTRICT COURT FOR THE DISTRICT OF NEVADA

- - -

IN RE: : Civil Action

DOCKET NO.

CUNG LE, NATHAN QUARRY, : 2:15-cv-01045-RFB-

JON FITCH, BRANDON VERA, : (PAL)

LUIS JAVIER VAZQUEZ and :

KYLE KINGSBURG, on behalf : CLASS ACTION

of themselves and all :

others similarly

situated, :

:

Plaintiffs,

:

:

ZUFFA, LLC, d/b/a
ULTIMATE FIGHTING
CHAMPIONSHIP and UFC,

v.

:

Defendants. :

\_ \_ \_

Wednesday, September 27, 2017

- - -

Videotaped deposition of HAL J. SINGER, Ph.D., taken pursuant to notice, was held at the law offices of Berger & Montague, P.C., 1622 Locust Street, Philadelphia, Pennsylvania 19103, beginning at 9:24 AM, on the above date, before Constance S. Kent, a Certified Court Reporter, Registered Professional Reporter, Certified LiveNote Reporter, and Notary Public in and for the Commonwealth of Pennsylvania.

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		6	Page 8
1	(Exhibit No. Singer-1,	1	Flexner also for defendant Zuffa.
2	Expert Report of Hal J. Singer,	2	MR. CRAMER: And on the
3	Ph.D., No. Singer-2, Errata, and	3	phone is Augie
4	No. Singer-3, Errata II, were	4	THE WITNESS: Augie Urschel.
5	marked for identification.)	5	MR. CRAMER: Augie Urschel
6	THE VIDEOGRAPHER: We are	6	from Economists, Inc.?
7	now on the record.	7	THE WITNESS: Correct.
8	This begins videotape No. 1	8	MR. CRAMER: You can spell
9	in the deposition of Hal J. Singer	9	his name for the court reporter.
10	in the matter of Cung Le versus	10	THE WITNESS: I don't know.
11	Zuffa, LLC, in the US District	11	Maybe Augie can spell his last
12	Court for the District of Nevada.	12	name, Urschel.
13	Today is Wednesday,	13	MR. URSCHEL: U-R-S-C-H-E-L.
14	September 27th, 2017, and the time	14	THE WITNESS: Thanks, Augie.
15	is 9:24 AM.	15	THE VIDEOGRAPHER: All
16	This deposition is being	16	right. Will the court reporter
17	taken at 1622 Locust Street in	17	please swear in the witness.
18	Philadelphia, PA 19103 at the	18	HAL SINGER, having been
19	request of Boies, Schiller &	19	first duly sworn, was examined and
20	Flexner, LLP.	20	testified as follows:
21	The videographer is Sol Tran	21	
22	of Magna Legal Services, and the	22	EXAMINATION
23	court reporter is Connie Kent of	23	
24	Magna Legal Services.	24	BY MR. ISAACSON:
	Page '		Page 9
1	Will counsel and all parties	1	Q. So Dr. Singer, for ease of
2	present, please state their	2	reference, we're putting in front of you
3	appearances and whom they	3	Exhibits 1, 2 and 3. Exhibit 1 is your
4	represent.	4	report, Exhibit 2 is your first errata
5	MR. CRAMER: Eric Cramer	5	and Exhibit 3 is your second errata. And
6	from Berger & Montague for the	6	I'll be asking questions about those two
7	plaintiffs.	7	today, and if when you want to refer
8	MR. DAVIS: Joshua Davis on	8	to them, I wanted to make sure you had
9	behalf the Saveri Law Firm for	9	them in front of you.
10	plaintiffs.	10	A. Okay.
11	MR. SILVERMAN: Dan	11	Q. All right. Now, I'm going
12	Silverman, Cohen Milstein Sellers	12	to ask you hopefully some detailed
13	& Toll, on behalf of plaintiffs.	13	questions about the various models that
14	MR. SUTER: Mark Suter,	14	you've that are included in your
15	Berger & Montague, on behalf of	15	report, but let me just ask you some high
16	the plaintiffs.	16	level questions to make sure I understand
17	MR. ISAACSON: Bill	17	what models you have in in the report.
18	Isaacson, Boies, Schiller &	18	Now, for purposes of
19	Flexner for defendant Zuffa.	19	damages, your first two damages models
20	MR. WIDNELL: Nicholas	20	are benchmark benchmarks against
21	Widnell, Boies, Schiller &	21	Strikeforce and Bellator based on the
22	Flexner, for defendant Zuffa.	22	percentage of revenue paid to fighters;
	MR. NAKAMURA: Brent	23	is that correct?
23	WIIV. TWING INTO INT. DICIIL		



	Page 10		Page 12
1	Q. Okay. And those those	1	MR. CRAMER: Misstates the
2	models don't include any explanatory	2	testimony, foundation, form.
3	variables, they're a simple comparison of	3	THE WITNESS: I believe the
4	the percentage of revenues between firms?	4	challenged conduct is the is
5	A. I wouldn't put it that way.	5	the cause of the foreclosure
6	They are a comparison of fighter wage	6	share, that's correct.
7	shares across the two firms.	7	BY MR. ISAACSON:
8	Q. Right.	8	Q. Okay. And for foreclosure
9	A. You said revenues.	9	in your regression, you used what what
10	Q. You're correct, I misspoke.	10	you called the tracked fighters
11	So thank you.	11	foreclosure measure; is that right?
12	They are they don't	12	A. Are you speaking of the
13	include any other explanatory variables,	13	regression in the damages section?
14	they're just a comparison of the	14	Q. Well, I think you've used it
15	percentage of revenue paid to fighters	15	for several different things, but your
16	between firms?	16	foreclosure regression, and maybe if you
17	A. Well, these these are	17	want to look at Table 6 of your report,
18	benchmarks and and I think by the	18	page 125.
19	construction of a benchmark, as opposed	19	A. Sorry, the page?
20	to, say, a regression model, which I've	20	Q. 125.
21	also included, these particular damages	21	A. Okay.
22	models don't control for variables	22	Q. Now, Table 6 on page 125 is
23	other variables in the same way that a	23	the output of your foreclosure
24	regression model might.	24	regression, correct?
	Page 1		Page 13
1	Q. Okay. Then your next damage	1	A. It is the output of one
2	model is a regression model, and that	2	regression specification that appears in
3	shows the relationship attempts to	3	a different section of the report,
4	show the relationship between Zuffa's	4	correct.
5	foreclosure share and its own percentage	5	Q. Okay. But it is an output
6	of revenue shared with fighters.	6	of your foreclosure regression, correct?
7	Do I have that right?	7	A. I wouldn't put it I would
8	A. Controlling for all other	8	put it just to be just to clarify
9	things that could explain variations in	9	what this is, it is the output of the
10	Zuffa's fighter wage share, yes.	10	regression of one specification of the
11	Q. Okay. And that model	11	regression that I ran in the
12	assumes that challenged conduct in this	12	anticompetitive effects section of the
13	case, as you've defined it in your	13	report. Î just want to make sure that we
14	report, caused the foreclosure.	14	don't conflate anticompetitive effects
15	A. No, I'm no, that's not	15	with damages.
16	correct.	16	Q. And I'm not trying to. I
17	Q. Okay. Does it assume	17	understand that this then gets used in
18	that well, what caused the foreclosure	18	damages. I'll take that next step. But
19	other than the challenged conduct?	19	let's give it a shorthand name?
20	MR. CRAMER: Form.	20	A. Okay.
21	THE WITNESS: Can I have	21	Q. Can we call it your
22	that question back?	22	foreclosure regression or and this
23	(Pertinent portion of the	23	would be one output because it's what
24	record is read.)	24	the result of one specification, one



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	Page 38		Page 40	
1	of the question then.	1	regression doesn't get to specify, the	
2	For each of your models, you	2	regression takes the foreclosure share as	
3	have a but-for world where the	3	an input.	
4	foreclosure share for Zuffa is either	4	Q. So regardless of the measure	
5	zero percent, 20 percent or 30 percent.	5	of foreclosure share that's generated by	
6	Do I have that right?	6	any specific model, the world you are	
7	A. I think you've got that	7	going to assume for purposes of	
8	right.	8	estimating impact or damages that the	
9	Q. Okay. And that's regardless	9	actual foreclosure share of Zuffa will be	
10	for what foreclosure is specified in the	10	zero, 20 percent or 30 percent depending	
11	regression?	11	on the model?	
12	A. I'm just I wish we could	12	MR. CRAMER: Objection to	
13		13	form.	
14	<u> </u>	14	BY MR. ISAACSON:	
15		15	Q. That's correct?	
16		16	MR. CRAMER: Objection to	
17		17	form.	
18		18	THE WITNESS: It was close.	
19	<b>J</b> 1	19	You said the model to start the	
20	J 1	20	question, and just again to be	
21		21	to be specific, the regression	
22	A. So the regression takes the	22	the regression doesn't get to pick	
23		23	the foreclosure share. The	
24	1	24	foreclosure share flows from which	
	Page 39		Page 41	_
1		1	market definition and which	_
1	Q. Foreclosure is an output of	1		
2	the regression?	2	weighting method I use, right?	
3	A. No, it's an input. It's an	3	That that will generate a	
4	input.	4	foreclosure share that gets spit	
5	Q. Okay. So	5 6	out, I think, of a Microsoft Excel	
6 7	A. But the regression doesn't	7	file, and that foreclosure share	
8	get to doesn't get to pick what	8	is going to be spit out alongside	
	foreclosure is or specify it. Maybe I'm	9	each observation in the dataset.	
9 10	misinterpreting what you mean by-	10	The regression finds a	
11	3 3 6	11	relationship between that foreclosure share and the	
12	word that you're comfortable with.	12		
13	A. The regression takes the	13	fighters' wage share controlling	
14	data as the world presents it and looks	$\frac{13}{14}$	for all other things and then the regression is done.	
14	ton valationships batticaen thosa data		regression is done.	
1 5	for relationships between those data.		•	
15 16	Q. Right.	15	At that point, I I can	
16	<ul><li>Q. Right.</li><li>A. All right? So it doesn't</li></ul>	15 16	At that point, I I can make use of the parameters that	
16 17	<ul><li>Q. Right.</li><li>A. All right? So it doesn't</li><li>specify. The maybe what would be</li></ul>	15 16 17	At that point, I I can make use of the parameters that come out of the regression to	
16 17 18	Q. Right. A. All right? So it doesn't specify. The maybe what would be helpful is that the market definition	15 16 17 18	At that point, I I can make use of the parameters that come out of the regression to project what a fighter's wage	
16 17 18 19	Q. Right. A. All right? So it doesn't specify. The maybe what would be helpful is that the market definition the market definition that I choose and	15 16 17 18 19	At that point, I I can make use of the parameters that come out of the regression to project what a fighter's wage share would be in a but-for world	
16 17 18 19 20	Q. Right. A. All right? So it doesn't specify. The maybe what would be helpful is that the market definition the market definition that I choose and the weights that I apply generate a	15 16 17 18 19 20	At that point, I I can make use of the parameters that come out of the regression to project what a fighter's wage share would be in a but-for world in which the foreclosure share was	
16 17 18 19 20 21	Q. Right. A. All right? So it doesn't specify. The maybe what would be helpful is that the market definition the market definition that I choose and the weights that I apply generate a measure of foreclosure share.	15 16 17 18 19 20 21	At that point, I I can make use of the parameters that come out of the regression to project what a fighter's wage share would be in a but-for world in which the foreclosure share was lower.	
16 17 18 19 20 21	Q. Right. A. All right? So it doesn't specify. The maybe what would be helpful is that the market definition the market definition that I choose and the weights that I apply generate a measure of foreclosure share. Q. Okay.	15 16 17 18 19 20 21	At that point, I I can make use of the parameters that come out of the regression to project what a fighter's wage share would be in a but-for world in which the foreclosure share was lower.  Sorry, I'm being I'm	
16 17 18 19 20 21	Q. Right. A. All right? So it doesn't specify. The maybe what would be helpful is that the market definition the market definition that I choose and the weights that I apply generate a measure of foreclosure share.	15 16 17 18 19 20 21	At that point, I I can make use of the parameters that come out of the regression to project what a fighter's wage share would be in a but-for world in which the foreclosure share was lower.	



	Page 46		Pac	ge 48
1	THE WITNESS: I'd have to	1	share?	<i>y</i>
2	think about it some more, but I	2	MR. CRAMER: I'm going to	
3	think I I think I gave you I	3	object to the extent it calls for	
4	think I gave you what the answer	4	a legal conclusion.	
5	was, which is that it depends	5	But you can answer.	
6	on on how you draw the the	6	And asked and answered.	
7	line.	7	THE WITNESS: I think I've	
8	BY MR. ISAACSON:	8	covered I've covered the basis.	
9	Q. All right. And how would	9	I think that the most the most	
10	you define zero percent foreclosure? You	10	obvious way to construct it is by	
11	said some of your models assume zero	11	coming up with a baseline in terms	
12	percent foreclosure. How do you define	12	of number of months in which an	
13	zero percent foreclosure?	13	exclusive contract is deemed	
14	A. So no model assumes it.	14	exclusionary and positing a world	
15	Just to be clear, I'm projecting but-for	15	in which Zuffa's contracts come	
16	worlds in which the foreclosure share is	16	under that that cutoff. They	
17	zero, 20 or 30 percent. But I'm	17	could be 15 months long, they	
18		18	could be 17 months long.	
19	1 6 1	19	BY MR. ISAACSON:	
20	Q. Right. How would you define	20	Q. All right. And that cutoff	
21	Zuffa with zero percent foreclosure?	21	that needs to be posited, is that a legal	
22	A. It can get you could get	22	cutoff or is that a matter of economics?	
23	to zero percent foreclosure in myriad	23	MR. CRAMER: Objection to	
24	ways. So I'm not I'm not specifying	24	form.	
	Page 47		Paç	ge 49
1	exactly how you get there. I can give	1	THE WITNESS: I think it is	
2	you examples, I think we just did, in	2	ultimately a legal decision, but	
3	which the legal standard is 30 percent	3	it can be informed through	
4	30 months sorry. If the legal	4	economics. I hope economics can	
5	standard were 30 months and if counter-	5	inform the law at times.	
6	factually all of well, and if Zuffa's	6	BY MR. ISAACSON:	
7	contracts all were 12-month contracts,	7	Q. All right. You mentioned	
8	then the foreclosure share by my measure	8	reducing the baseline number of months	
9	would be zero percent.	9	for the exclusive contracts, and you	
10	But that's just one way.	10	mentioned divesting fighters to to an	
11	There are there are many there are	11	independent organization from Zuffa.	
12	many ways to get your foreclosure share	12	Are there any other examples	
13	• • •	13	that you can think of as to how Zuffa	
14		14	could reach zero or near zero	
15	to a to an independent organization	15	foreclosure?	
16	thereby decreasing your market share and	16	A. Sure. I can keep on coming	
17	thereby decreasing your foreclosure	17	up with examples.	
18	•	18	One example would be that	
19	There's there are many	19	there's no exclusivity provision in the	
20	ways to get to to a lower foreclosure	20	contracts.	
21	share.	21	Q. All right. That's one. Are	
22	Q. All right. So can you give	22	there any other examples?	
23	me some other examples of ways that Zuffa	23	MR. CRAMER: Asked and	
24	could get to zero percent foreclosure	24	answered, form.	



1 And I use three different 2 scenarios: Zero percent, 3 20 percent and 30 percent. 4 BY MR. ISAACSON: 5 Q. Now, when you use a world in 6 which there Zuffa has zero percent 7 foreclosure, how does that translate into 1 is there any measure of foreclosure who a 12-month contract, in your opinion, 3 would not result in the zero or near zero foreclosure? 5 MR. CRAMER: Objection to form. 6 THE WITNESS: Let me hear	ere
2 scenarios: Zero percent, 3 20 percent and 30 percent. 4 BY MR. ISAACSON: 5 Q. Now, when you use a world in 6 which there Zuffa has zero percent 2 a 12-month contract, in your opinion, 3 would not result in the zero or near zero foreclosure? 5 MR. CRAMER: Objection to form.	
3 20 percent and 30 percent. 4 BY MR. ISAACSON: 5 Q. Now, when you use a world in 6 which there Zuffa has zero percent 3 would not result in the zero or near zero foreclosure? 5 MR. CRAMER: Objection to form.	
4 BY MR. ISAACSON: 5 Q. Now, when you use a world in 6 which there Zuffa has zero percent 4 foreclosure? 5 MR. CRAMER: Objection to 6 form.	0
5 Q. Now, when you use a world in 6 which there Zuffa has zero percent 5 MR. CRAMER: Objection to form.	
6 which there Zuffa has zero percent 6 form.	
Total observe, now does that translate into	it
8 any a market share for Zuffa? 8 back. But I don't think I	
9 A. Oh, it could accommodate 9 understood it, but let me just	
many different market shares for Zuffa.	
11 It is one way of putting it is almost 11 BY MR. ISAACSON:	
12 agnostic to the market share. It 12 Q. Well, because you just told	
could it could accommodate many. 13 me about how your 30-month baseline,	and
You can have just to be 14 you confined your answer to that	
clear, you can have a high market share 15 particular measure of foreclosure.	
and zero foreclosure share if all of your 16 And I'm asking you, is there	
17 fighters are under, say, 12-month 17 any measure of foreclosure where a	
18 contracts. 12-month contract for all Zuffa fighters	3
19 Q. And do I understand 19 would not result in zero or near zero	,
20 correctly that if all the Zuffa fighters 20 foreclosure?	
were under 12-month contracts, you would 21 MR. CRAMER: Objection to	
22 expect the foreclosure share of Zuffa to 22 form.	
be zero or close to zero?  23 THE WITNESS: Well,	
MR. CRAMER: Objection to 24 certainly not if you use 30 months	
Page 43	Page 45
1 form. 1 as the cutoff, but if if the	
2 THE WITNESS: So I I deem 2 court, for example, were to deem	
3 a fighter to be foreclosed, or to 3 that 12 months with an	
be working or employed pursuant to  4 be working or employed pursuant to  4 exclusion with an exclusive	
5 an exclusionary contract if, as 5 arrangement were exclusionary,	
6 you know, the contract is 6 then contracts with 12 months	
7 exclusive and if the duration 7 would be exclusionary. It's	
8 exceeds a certain number of 8 tautological. It depends on where	
9 months. I use 30 months I think 9 you draw the cutoff and what	
10 as my my baseline approach. 10 what conditions you require for	
11 And so if you if you 11 for one to conclude that a	
allow me to use that 30-month 12 contract was exclusionary.	
baseline or cutoff as a measure 13 BY MR. ISAACSON:	
for whether a fighter is 14 Q. All right. So I'm not	
foreclosed, and if your question 15 asking you any questions about what	
posits that every Zuffa fighter 16 courts rule, I'm asking you questions	
under contract is is at 17 that come out of your models.	
18 12 months, then by construction, 18 Is there any measure of	
19 12 months is less than 30 months, 19 foreclosure in any of your models when	e a
and therefore, under that 20 12-month contract for all Zuffa fighters	
particular measure of foreclosure, 21 would not result in zero or near zero	
no fighter would be foreclosed. 22 foreclosure?	
23 BY MR. ISAACSON: 23 MR. CRAMER: Objection to	
Q. All right. Is there any 24 form. Asked and answered.	



	Page 46			Page	48
1	THE WITNESS: I'd have to	1	share?		
1 2	think about it some more, but I	2	MR. CRAMER: I'm going to		
3	think I I think I gave you I	3	object to the extent it calls for		
4		4	3		
5	think I gave you what the answer was, which is that it depends	5	a legal conclusion.  But you can answer.		
6	on on how you draw the the	6	And asked and answered.		
7	line.	7	THE WITNESS: I think I've		
8	BY MR. ISAACSON:	8	covered I've covered the basis.		
9	Q. All right. And how would	9	I think that the most the most		
10	you define zero percent foreclosure? You	10	obvious way to construct it is by		
11	said some of your models assume zero	11	coming up with a baseline in terms		
12	percent foreclosure. How do you define	12	of number of months in which an		
13	zero percent foreclosure?	13	exclusive contract is deemed		
14	A. So no model assumes it.	14	exclusionary and positing a world		
15	Just to be clear, I'm projecting but-for	15	in which Zuffa's contracts come		
16	worlds in which the foreclosure share is	16	under that that cutoff. They		
17	zero, 20 or 30 percent. But I'm	17	could be 15 months long, they		
18	interpreting the question as how could	18	could be 17 months long, they		
19	1 0 1	19	BY MR. ISAACSON:		
20	Q. Right. How would you define	20	Q. All right. And that cutoff		
21	Zuffa with zero percent foreclosure?	21	that needs to be posited, is that a legal		
22	A. It can get you could get	22	cutoff or is that a matter of economics?		
23	to zero percent foreclosure in myriad	23	MR. CRAMER: Objection to		
24	ways. So I'm not I'm not specifying	24	form.		
	Page 47		101111	Page	49
1	avently how you got thora. I can give	1	THE WITNESS: I think it is		ĺ
1 2	exactly how you get there. I can give	1   2			
3	you examples, I think we just did, in which the legal standard is 30 percent	3	ultimately a legal decision, but it can be informed through		
4	30 months sorry. If the legal	4	economics. I hope economics can		
5	standard were 30 months and if counter-	5	inform the law at times.		
6	factually all of well, and if Zuffa's	6	BY MR. ISAACSON:		
7	contracts all were 12-month contracts,	7	Q. All right. You mentioned		
8	then the foreclosure share by my measure	8	reducing the baseline number of months	,	
9	would be zero percent.	9	for the exclusive contracts, and you	•	
10	But that's just one way.	10	mentioned divesting fighters to to an		
11	There are there are many there are	11	independent organization from Zuffa.		
12	many ways to get your foreclosure share	12	Are there any other examples		
13	down. You can you can divest	13	that you can think of as to how Zuffa		
14	divest fighters and send send fighters	14	could reach zero or near zero		
15	to a to an independent organization	15	foreclosure?		
16	thereby decreasing your market share and	16	A. Sure. I can keep on coming		
17	thereby decreasing your foreclosure	17	up with examples.		
18	share.	18	One example would be that		
19	There's there are many	19	there's no exclusivity provision in the		
20	ways to get to to a lower foreclosure	20	contracts.		
21	share.	21	Q. All right. That's one. Are		
22	Q. All right. So can you give	22	there any other examples?		
23	me some other examples of ways that Zuffa	23	MR. CRAMER: Asked and		
24	could get to zero percent foreclosure	24	answered, form.		

1 THE WITNESS: I can't think 2 of others. 3 BY MR. ISAACSON: 4 Q. All right. Now, you do 5 define markets in your report at a high 6 level. Let me see if I've got what 7 you've got. 8 For input markets, you've 9 defined a tracked market by referring to 11 (sic) right? 12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant 18 input market. 1	÷
2 tracked, as well as one other MMA 3 BY MR. ISAACSON: 4 Q. All right. Now, you do 5 define markets in your report at a high 6 level. Let me see if I've got what 7 you've got. 8 For input markets, you've 9 defined a tracked market by referring to 10 data from FightMetric FightMetrics 11 (sic) right? 12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different relevant input market input market? 17 Q. What is the one relevant input market? 18 Q. What is the one relevant input market? 19 A. It's I think I've defined it in the report. 10 I the report. 11 identify the fighters in the relevant in the	>
3 BY MR. ISAACSON: 4 Q. All right. Now, you do 5 define markets in your report at a high 6 level. Let me see if I've got what 7 you've got. 8 For input markets, you've 9 defined a tracked market by referring to 10 data from FightMetric FightMetrics 11 (sic) right? 12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input market, and I use two 16 different relevant input market and a 17 you that you have defined? 18 A. This this could be a 19 matter of semantics, but I prefer to say there's one relevant input market and a 11 these are two different ways to measure input market and a 12 A. I certainly use FightMetrics 13 Q. What is the one relevant input market? 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant 18 Q. Feel free to point me in the	<b>;</b>
4 Q. All right. Now, you do 5 define markets in your report at a high 6 level. Let me see if I've got what 7 you've got. 8 For input markets, you've 9 defined a tracked market by referring to 10 data from FightMetric FightMetrics 11 (sic) right? 12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different relevant input market wo 17 you that you have defined? 18 A. This this could be a 19 matter of semantics, but I prefer to say 10 there's one relevant input market and 11 these are two different ways to measure 12 it. 13 Q. What is the one relevant 14 input market? 15 A. It's I think I've defined 16 different standard industry databases to 16 it in the report. 17 identify the fighters in the relevant	<b>;</b>
define markets in your report at a high level. Let me see if I've got what you've got.  For input markets, you've defined a tracked market by referring to data from FightMetric FightMetrics  A. I certainly use FightMetrics  A. I certainly use FightMetrics  I have a relevant input market and a  I have a relevant input market and a  for in	÷
level. Let me see if I've got what you've got.  For input markets, you've defined a tracked market by referring to data from FightMetric FightMetrics  A. I certainly use FightMetrics  A. I certainly use FightMetrics  A. I certainly use FightMetrics  I have a relevant input market and a  I have a relevant input market and a  for input market and a  for input markets, you've matter of semantics, but I prefer to say there's one relevant input market and these are two different ways to measure it.  Q. What is the one relevant input market?  A. It's I think I've defined it in the report.  A. It's I think I've defined it in the report.  Q. Feel free to point me in the	<b>)</b>
you've got.  For input markets, you've defined a tracked market by referring to data from FightMetric FightMetrics  A. I certainly use FightMetrics  A. I certainly use FightMetrics  A. I certainly use FightMetrics  I have a relevant input market and a  I have a relevant input market and a  frelevant input submarket, and I use two different standard industry databases to identify the fighters in the relevant  you that you have defined?  A. This this could be a  matter of semantics, but I prefer to say the I prefer to say there's one relevant input market and a  these are two different ways to measure it.  Q. What is the one relevant input market?  A. It's I think I've defined it in the report.  Q. Feel free to point me in the	>
For input markets, you've  9 defined a tracked market by referring to 10 data from FightMetric FightMetrics 11 (sic) right? 12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  8 A. This this could be a 9 matter of semantics, but I prefer to say 10 there's one relevant input market and 11 these are two different ways to measure 12 it. 13 Q. What is the one relevant 14 input market? 15 A. It's I think I've defined 16 it in the report. 17 Q. Feel free to point me in the	÷
defined a tracked market by referring to data from FightMetric FightMetrics  10 there's one relevant input market and 11 (sic) right?  12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  9 matter of semantics, but I prefer to say 10 there's one relevant input market and 11 these are two different ways to measure 12 it. 13 Q. What is the one relevant 14 input market? 15 A. It's I think I've defined 16 it in the report. 17 Q. Feel free to point me in the	2
data from FightMetric FightMetrics  1	2
11 (sic) right?  12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  11 these are two different ways to measure 12 it. 13 Q. What is the one relevant 14 input market? 15 A. It's I think I've defined 16 it in the report. 17 Q. Feel free to point me in the	ġ
12 A. I certainly use FightMetrics 13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  12 it. 13 Q. What is the one relevant 14 input market? 15 A. It's I think I've defined 16 it in the report. 17 Q. Feel free to point me in the	
13 (sic), but I prefer to say that I have 14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  18 Q. What is the one relevant 19 input market? 10 A. It's I think I've defined 11 it in the report. 11 Q. Feel free to point me in the	
14 I have a relevant input market and a 15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  18 input market? 19 A. It's I think I've defined 10 it in the report. 11 Q. Feel free to point me in the	
15 relevant input submarket, and I use two 16 different standard industry databases to 17 identify the fighters in the relevant  18 A. It's I think I've defined 19 it in the report. 19 Q. Feel free to point me in the	
16 different standard industry databases to 17 identify the fighters in the relevant 18 it in the report. 19 Q. Feel free to point me in the	İ
17 identify the fighters in the relevant   17 Q. Feel free to point me in the	
μο input market. μο report.	
Q. Right, they're not helpful  A. Well, if we're going to call	
24 to us. 24 it anything by shorthand, I would prefe	r
Page 51	Page 53
1 A. They're not helpful. 1 to use the term relevant input market.	-
2 Q. But we'll live with them. 2 think that the language in the report	
But so you have two 3 explains what I'm trying to get at, whic	h
4 relevant input markets: A tracked market 4 is a set of fighters with MMA fighter	
5 which for which you draw data from 5 services that would be used by an MM.	<b>A</b>
6 FightMetric, and a ranked market which 6 promotion organization to stage live	
7 draws from data from Fight Matrix, 7 events.	
8 together with the data from FightMetric. 8 Q. You told me you preferred to	
9 Do I have that right? 9 say there's one relevant input market ar	ıd
10 A. Again, I would prefer to say 10 there's two different ways to measure it	
there's one relevant input market that   11 What is the one relevant	
we're that we're trying to measure and 12 input market?	
13 I have two different ways of measuring 13 MR. CRAMER: Asked and	
14 it. One relies on a database from 14 answered.	
15 FightMetrics (sic), which I refer to as 15 THE WITNESS: These are	
the tracked method. That's that's 16 these are MMA fighters who are	
really the beginning, because as you 17 used as input to the production of	
probably are aware, there's a few live MMA events.	
19 additions that I tack on to to even 19 And to clarify it, I said	
20 that measure. 20 two. Of course there's a	
21 And then as we move from the 21 there's a third a submarket. I	
tracked measure to the ranked measure, 22 don't know if	
23 I I include everybody who made it into 23 BY MR. ISAACSON:	
the tracked and I add on additional 24 Q. Yeah, we'll get to the	



	Page 54		Page 56
1	submarket.	1	SSNIP analysis, which is S-S-N-I-P.
2	A. Okay.	2	But just returning to my
3	Q. The all right. And the	3	question, in your opinion, are there no
4	submarket is the you used the	4	reasonable substitutes outside the
5	headliner definition; is that right?	5	tracked market and the ranked market if
6	A. Correct.	6	fighter pay goes up?
7	Q. And am I correct that in	7	A. So that you haven't
8	your opinion, there would be no broader	8	posited the correct question for market
9	market than the markets you have defined	9	definition. It's not if fighter pay goes
10	using the tracked measure or the ranked	10	up. It's the question is if if
11	measure?	11	Zuffa were to control a certain set of
12	A. Correct, there's no broader	12	fighters, could could Zuffa exercise
13	market. Already I think that the ranked	13	market power in the form of pushing wages
14	market is is potentially overly broad.	14	down? You keep saying if prices go up.
15	Q. And when you when you say	15	That's not the that's not market
16	there's no broader market, that would	16	Q. I appreciate you telling me
17	mean there's no reasonable substitutes	17	I'm not asking the correct questions
18	outside those markets if, for example,	18	A. Well, I mean
19	fighter pay where to go up?	19	Q. But let's stick with
20	A. That's not quite what I	20	let's stick with answering my questions.
21	mean.	21	A. Okay. Well, okay, but if
22		22	· · · · · · · · · · · · · · · · · · ·
23	•	23	you ask me a question that makes no sense
24	Then let me just ask you this question: In your opinion, are there no reasonable	24	as a matter of economics, I can't give
21	Page 55		you an answer.  Page 57
1	out substitutes outside the tracked	1	Q. In your opinion in your
2	market and the ranked market if fighter	2	opinion, are there no reasonable
3	pay rises?	3	substitutes for the fighters outside the
4	MR. CRAMER: From what level	4	tracked market and outside the ranked
5	to what level?	5	market?
6	MR. ISAACSON: It goes up.	6	A. I would put the caveat that
7	MR. CRAMER: Okay.	7	if a hypothetical monopsonist controlled
8	THE WITNESS: So I do	8	all of the fighters in either of those
9	allow before I answer the	9	two markets, it would be able to
10	question, I just want to make sure	10	successfully exercise a wage suppression
11	you understand how I get to the	11	below competitive levels without having
12	market. It's not entirely driven	12	to fear that a sufficient number of
13	by reasonable substitutes. I'm	13	fighters inside of its net would would
14	asking I'm trying to employ the	14	substitute to something outside of the
15	SSNIP test from the merger	15	net.
16	guidelines, and I'm looking for	16	And that's a long way of
17	the smallest set of fighters such	17	answering your question, but I think
18	that a hypothetical monopsonist	18	doing so more precisely as to what is
19	could exercise market power.	19	considered reasonable.
20	And that that is the	20	If you if you have, say,
21	question that that drives the	21	all of the ranked fighters, and you're
22	analysis.	22	looking at it from the perspective of a
23	BY MR. ISAACSON:	23	given ranked fighter, let's suppose a
24	Q. And I'll ask you about your	24	highly ranked fighter, he or she will not

	Page '	70		Page 72
1	offered alternative methodologies, they		1	Q. Okay. You mentioned the
2	all point to numbers that create a range,		2	you mentioned the FightMetric database
3	and I think that that any one of them		3	which is used in connection with your
4	would be a reasonable estimate of		4	tracked input market as well as your
5	damages.		5	ranked input market. FightMetrics (sic)
6	Q. And within that range, every		6	is a service that promotions pay to
7	number within that range you consider to		7	pay FightMetric for; is that right?
8	be reasonable, correct?		8	A. I think that a promotion can
9	MR. CRAMER: Objection to		9	subscribe and purchase the FightMetrics
10	form. Misstates the testimony.	:	10	(sic) data. I know, for example, that
11	THE WITNESS: No, because	-	11	Zuffa uses it in its day-to-day business
12	I I don't want to pick some	:	12	operations.
13	number that's that's that		13	Q. Is it the case if you do not
14	just is randomly chosen between		14	subscribe, if you don't pay, that you're
15	two of my estimates.		15	not on FightMetric?
16	BY MR. ISAACSON:		16	A. That is not my
17	Q. All right. That's fair.	- 1	17	understanding.
18	So every you've you've		18	MR. ISAACSON: Can we mark
19	estimated a range of damages. Every		19	this as Exhibit 4?
20	number within that range that you've		20	(Exhibit No. Singer-4, Excel
21	estimated, you would consider a		21	spreadsheet, Weight Data for
22	reasonable award of damages in this case?		22	Foreclosure Shares, was marked for
23	MR. CRAMER: Form.		23	identification.)
24	THE WITNESS: Every number	$\rightarrow$	24	BY MR. ISAACSON:
	Page '	71		Page 73
1	associated with one of my damages		1	Q. Exhibit 4 is a backup file
2	methodologies represents a		2	we were provided. It's titled Weight
3	reasonable estimate of aggregate		3	Data for Foreclosure Shares. We've
4	damages.		4	printed out a tab called Combined Event
5	BY MR. ISAACSON:		5	Tab. We've not altered the content, but
6	Q. All right. And amongst the		6	in order to have the columns fit on one
7	numbers associated with one of your		7	page, we rotated the first row to make
8	damages methodologies, you do not have an		8	the column names vertical, and we also
9	opinion as to which one is more or less		9	added page numbers and shrunk the columns
10	appropriate as an award of damages; is		10	to fit the content.
11 12	that correct?		11 12	MR. CRAMER: Which did you
13	MR. CRAMER: I'm going to object to the extent it calls for		12 13	add? MR. ISAACSON: We did add no
14	· ·	- 1	$\frac{13}{14}$	
15	a legal conclusion.  THE WITNESS: I don't think,	- 1	15	content. We we did some things to make it fit on the page.
16	at least sitting here today, I'm		16	MR. CRAMER: You said you
17	prepared to speak to which is more		17	added combined
18	or less appropriate. They can be		18	THE WITNESS: No, I think he
19	evaluated on other dimensions such		19	said he rotated the titles, the
20	as more or less conservative. But		20	headers of the columns so that it
21	more or less appropriate, I'm		21	would fit.
22	I'm not even sure I understand		22	MR. CRAMER: Thank you.
23	what that means.		23	BY MR. ISAACSON:
24	BY MR. ISAACSON:		24	Q. Now, as I understand this,



	Page 74		Page 76
1	this would be pay-per-view revenue data	1	irrelevant to me. I'm trying to figure
2	that you relied on when you did your	2	out value created by the fighter, the
3	foreclosure regression?	3	fighter's marginal revenue product.
4	A. It depends on which	4	Q. All right. So for purposes
5	weighting technique I used, right? I've	5	of estimating the weighted revenue, I am
6	done three different weighting	6	correct that you used the full \$45 that
7	techniques: The revenue weighted, the	7	went to the cable company as opposed to
8	ranked weighted and unweighted.	8	the amount that went to Zuffa?
9	Q. Okay. So this would be the	9	A. I used the value created by
10	data that you used when you weighted by	10	the event.
11	revenue; is that correct?	11	Q. And the value created by the
12	A. I believe so.	12	event is the full amount that went to the
13	Q. And there looking at the	13	cable company and not the amount that
14	column called Pay-Per-View Multiplier,	14	went to Zuffa, correct?
15	which has a lot of 45s, all right, except	15	A. I don't have an insight, at
16	I think at the very end maybe there's one	16	least sitting here, as to how that how
17	50. The last one is 50.	17	that \$45 got split between the two, but
18	And do you understand	18	what matters to me for my purposes is
19	that what do you understand that 45	19	trying to figure out how much the market
20	refers to?	20	values the event, and so I want data on
21	A. Sitting here, I'm not sure.	21	the price paid by the consumer for the
22	It seems close to what Zuffa was charging	22	event.
23	per pay-per-view event, but I'd want to	23	Q. The now, looking down the
24	get confirmation of that.	24	column called Gate. You have some
	Page 75		Page 77
1	Q. So and I believe it is an	1	entries, but a lot of entries where it's
2	assumed number or a number that you have	2	blank. And am I correct that where you
3	used for what a customer pays for the	3	did not have actual data for the gate,
4	for the pay-per-view event. Is it the	4	you used some sort of average?
5	number that they paid to Zuffa or is it	5	A. Well, I wouldn't put it that
6	the number they paid to the pay-per-view	6	way.
7	or cable company?	7	Q. Okay. How would you put it?
8	A. It would be the number	8	A. I would say that I computed
9	that's charged by your cable operator.	9	an average across a year for a given
10	Q. And how much of the \$45 does	10	for a given promoter, and if there was a
11	Zuffa get?	11	blank in the field, the blank, by
12	A. Oh, I'm not sure of that.	12	construction, could not inform the
13	That would be that would be arranged	13	average.
14	between Zuffa and the cable operator.	14	Q. I just asked you if you used
15	Q. But for purposes of	15	an average, but okay.
16	calculating the weighted revenue, you	16	You did use where the
17	used the full \$45 as if it went to Zuffa;	17	field was blank for gate, you used an
18	is that correct?	18	average across a year for the given
19	A. I wouldn't put it that way.	19	promoter?
20	Q. Well, how would you put it?	20	A. I believe that's the rule.
21	A. What I'm trying to capture	21	I'd want to go back and check that, but I
22	is is value created, and so the	22	believe that we calculated an average
23	question is how that 45 gets decomposed	23	revenue per event, per fighter across the
24	between Zuffa and the operator is	24	promotion within a given year for



	Page 94		Page 96
1	benchmark, which in Table 9, had	1	what I like to call the fighter wage
2	estimated damages of just under		S S
3	\$1.4 billion?	3	, 6
4	A. I think that's fine, how you	4	
5	put it. I actually think that comparing	5	
6	10 and 11 gives you a better indication	1 6	
7	of what the influence of inclusion of the		•
8	pre-Strikeforce observations do to the	8	<u> </u>
9	regression, but you can also that	9	•
10	would be the preferred if you want to	10	
11	see what the marginal effect is, I	11	
12	would I would suggest that you compare	12	$\iota$
13	10 with 11.	13	
14	Q. All right. Now, you have	14	· ·
15	estimated damages and foreclosure effect	15	
16	relying on the relationship to the	16	
17	percentage of revenue paid to fighters,	17	_
18	correct?	18	
19	MR. CRAMER: Form.	19	
20	THE WITNESS: Can I hear	20	6
21	that back? I'm sorry.	21	
22	BY MR. ISAACSON:	22	<i>C</i> , <b>3</b>
23	Q. You've estimated damages in	23	Ç ,
24	a foreclosure effect relying on a	24	$\mathcal{E}$
	Page 95	+	Page 97
1	relationship to the percentage of revenue	1	fighters?
2	paid to fighters, what you called the		S .
3	fighters' share?	3	<b>3</b> /
4	A. I think that I've offered	4	$\mathcal{E}$
5	I've offered, under one of my approaches	5	•
6	to damages, a regression-based approach	1 6	$\mathcal{E}$ , $\mathcal{I}$
7	that relates foreclosure share to fighter	7	
8	wage share.	8	
9	Q. I'm talking about something	9	
10	slightly different.	10	
11	A. Okay.	11	-
12	Q. Okay. And we'll come to the	12	
13	fighter wage share. But in terms of	13	
14	the go back to 125.	14	
15	A. Okay.	15	<i>y y</i>
16	Q. Table 6, which is an example	16	
17	of the output of your regression that	17	
18	we've been calling the foreclosure	18	
19	regression, expresses that as there's an	19	
20	increase in foreclosure share, there's a	20	
21	decrease in fighter share, and the	21	headliner. The only thing that's
22	fighter's share is the share of revenue	22	
23	that goes to fighters.	23	
24	A. Or what I like to call or	24	regression dataset.



	Page 98		Page 100
1		1	
1 2	Q. You have not done any impact models or damages models where you	2	establish the fact of common impact.  Q. And the results showed that
3	where you use as an input the actual	3	individual fighter compensation per event
4	amount of fighter pay as opposed to the	4	moves together with per event
5	fighter share?	5	compensation paid to other fighters; is
6	A. I don't think that's true.	6	that correct?
7	I have in my impact section, I've run	7	A. Yes.
8	a model on levels, not related to	8	Q. Okay. And while it
9	foreclosure share, but levels of fighters	9	establishes that the compensation moves
10	compared to what other fighter were being	10	together, the output of that model does
11	paid.	11	not actually demonstrate injury to any
12	But if you're asking have	12	specific fighter; is that correct?
13	I have I run a model that relates	13	MR. CRAMER: Objection to
14	foreclosure share to the levels, I have	14	form.
15	not done that.	15	THE WITNESS: I would say
16	Q. All right. I think I	16	the output of that model in
17	understand you, but let me get it	17	conjunction with other steps in
18	straight.	18	that two-part proof show impact to
19	You have not run any models	19	all fighters.
20	that establish the that establish the	20	BY MR. ISAACSON:
21	fact of injury or the amount of damages	21	Q. Just look at paragraph 229.
22	that rely on the actual salaries that	22	You used the example in the middle of:
23	are not salaries, the actual	23	"In particular, a 1 percent
24	compensation paid to fighters as opposed	24	increase"
	Page 99		Page 101
1	to the fighters' share?	1	A. I'm not there yet, I'm
2	MR. CRAMER: Objection to	2	sorry.
3	form.	3	Q. I'm being impatient. I
4	THE WITNESS: No, I'm going	4	apologize.
5	to I'm going to say no to that	5	A. Okay. Now I'm on 229.
6	one. I thought I just clarified.	6	Q. In the middle you see, "In
7	BY MR. ISAACSON:	7	particular a 1 percent increase"?
8	Q. Just say no and I'll ask you	8	A. Yes.
9	a follow-up question.	9	Q. Okay.
10	A. Fine. No.	10	"In particular, a 1 percent
11	Q. The when you look at	11	increase in other fighters' per event
12	actual fighter pay, that's when you	12	compensation is associated with an
13	were when you used actual fighter pay	13	increase in individual fighter
14	as opposed to fighter share, that's when	14	compensation of approximately
15	you performed regressions to determine	15	0.159 percent to 0.175 percent."
16	whether gains or losses in a compensation	16	And you say that:
17	were broadly shared across the bout	17	"This provides further
18	class, correct?	18	evidence of a pricing structure, and
19	A. Correct, as part of an	19	accordingly of common impact flowing from
20	impact model.	20	generalized compensation suppression."
21	Q. Right. And does that model	21	Now, I understand that you
22	generate an amount of impact or amount of	22	have concluded from this that this is
23	damages?	23	evidence of common impact. But this
24	A. No, that model was to	24	analysis by itself does not show any

	Page 102		Page 104
1	that in a but-for world fighters would	1	models aren't taking into consideration
2	have been paid more; is that correct?	2	the fighters' pay, I have to I have
3	A. This analysis must be	3	to I have to reject that.
4	understood in conjunction with other	4	Q. All right. So there is a
5	analyses in the section, the totality of	5	variable in each of your impact models
6	which establishes common impact.	6	and damages models that actually estimate
7	Q. I agree with that. What I'm	7	a dollar effect on fighters that relies
8	saying is this this model by itself	8	on the fighters' share as opposed to the
9	would not show any injury to any specific	9	absolute level of compensation of the
10	fighter, it would have it would have	10	fighter. Do I have that right? What you
11	to be considered in conjunction with	11	call the variable on the left-hand side.
12	other analysis that you've done?	12	A. Yeah, the dependent variable
13	A. I think that's fair. I	13	in certain models is expressed in terms
14	would not I would not offer this model	14	of fighter's share, and to figure out
15	by itself as proof of common impact. I	15	what the effect is on a fighter's
16	would offer it, as I did, in conjunction	16	absolute pay, it's a ministerial change
17	with other models in the section, and	17	to convert from an actual fighter share
18	record evidence, of course.	18	to a but-for fighter's share, and then
19		19	knowing what the event revenue was to
20		20	
21	actually conclude by themselves that there was damage or impact to individual	21	convert to a but-for fighter pay.  So I think that I think
22		22	
	fighters are all expressed in terms of	23	that to say that it's it's not making
23	fighters' share and don't rely on data		use of actual fighter pay just misses
24	but actual fighter pay; is that correct?	24	what's what's going on.
	Page 103		Page 105
1	MR. CRAMER: Objection to	1	Q. All right. So on page 155,
2	form.	2	Table 8.
3	THE WITNESS: No, that's not	3	A. Okay.
4	correct.	4	Q. Which reports on a
5	BY MR. ISAACSON:	5	regression you did for impact. The
6	Q. The models that show actual	6	dependent variable there was the
7	impact or damages by themselves all are	7	fighter's share of revenue rather than
8	expressed in terms of the fighters' share	8	the absolute level of compensation, am I
9	of revenue, correct?	9	correct?
10	A. I wouldn't put it that way	10	A. Correct.
11	either.	11	Q. Okay. And the same would be
12	Q. Okay. For each of those	12	true for each of the regressions in your
13	models you were looking at what the	13	damages models; is that correct?
14	fighter share of revenue actually was	14	A. I believe that's fair, that
15	compared to what it would be in the	15	the dependent variable in those models
16	but-for world using the models that	16	was fighter share of revenues.
17	you've relied on, correct?	17	Q. I'm going to take a big
18	A. For certain models, the	18	chance here and ask if you can explain
19	left-hand side variable of the regression	19	for our audience what you mean by a
20	was expressed in terms of fighter share	20	dependent variable.
21	as opposed to absolute level.	21	A. Sure. So the dependent
22	But I want to make clear for	22	variable is the variable that we are
23		23	trying to understand and explain what
Z 3	the record that the numerator is the	20	u ying to understand and explain what
23 24	the record that the numerator is the fighters' pay. So when you say the	24	what drives it to to move around. And

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1	so we you'll also hear the expression	1	that in Arizona Travel Nurses?	
2	the left-hand side variable, but but	2	A. Yeah, it's an old case, but	
3	it's it's the variable of interest.	3	I some some faint memories are	
4	We are we are trying to to	4	coming back, and I I believe that	
5	understand the world through through	5	to to establish similar things, common	
6	that variable and to explain what causes	6	impact there, we were we were looking	
7	it to vary.	7	at the bill rate as the denominator,	
8	Q. All right. So I'd like I	8	that's how much the hospital was was	
9	think variable of interest is a phrase	9	charging for the for the nurse, and	
10	you use in your report, and I guess it's	10	the numerator was the wage that went to	
11	also comfortable calling it a dependent	11	the to the nurse, and so it's an	
12	variable for a layperson, the variable	12	analogous construction of a dependent	
13	we're trying to explain. Both of those	13	variable.	
14	would be acceptable?	14	Q. Any other cases that you	
15	A. Sure.	15	where you've estimated damages using the	
16	Q. Okay. The	16	variable of interest or the dependent	
17	THE VIDEOGRAPHER: We're ten	17	variable as the share to labor?	
18	minutes left on this tape,	18	A. I'm not sure. I'm not sure	
19	Counsel.	19	how many other wage suppression cases	
20	MR. ISAACSON: All right.	20	I've done besides besides these two.	
21	We'll go about five more minutes	21	I'd have to I'd have to go back and	
22	and take a break.	22	think about it.	
23	BY MR. ISAACSON:	23	Q. Okay.	
24	Q. Have you done damages	24	MR. ISAACSON: All right.	
	Page 107		Page	109
1	analysis before where you had used the	1	Why don't we take a break?	
2	percentage of the percentage of	2	MR. CRAMER: Sure.	
3	revenue as opposed to the absolute level	3	THE VIDEOGRAPHER: The time	
4	of compensation as the variable of	4	is 11:26 AM. We are going off the	
5	interest?	5	record, and this is the end of	
6	A. It's possible. Sitting here	6	Disk 1.	
7	I'm thinking of another of another	7	(Recess.)	
8	wage case that I did, which was which	8	THE VIDEOGRAPHER: The time	
9	I refer to as Arizona Travel Nurses, and	9	is 11:40 AM. This is the start of	
10	it's possible that we when we did our	10	Disk 2, and we are now on the	
11	modeling there, we expressed in fact,	11	record.	
12	it's kind of coming back to me. I think	12	BY MR. ISAACSON:	
13	we were interested in a nurse's payment	13	Q. So I want to continue our	
14	relative to her bill rate. So so yes,	14	discussion of the percentage of revenue	
15	I believe I've I've done something	15	paid to labor as the variable of	
16	like that before.	16	interest.	
17	Q. You say something like that,	17	Is there economic literature	
18	have you done have you used as the	18	that you're familiar with that discusses	
19	variable of interest before the share of	19	the percentage of revenue that's paid to	
20	total revenue that goes to the labor	20	labor in a competitive industry as	
21	force, whether that labor force is an	21	opposed to an industry that's less	
22	employee or or contractors?	22	competitive?	
23	A. I think so.	23	A. Is there economic	
24	Q. Okay. And you think you did	24	literature?	



	Page 114		Page 116
1	-	1	adds a worker, am I correct?
2	Q. All right. Let me try it this way then. Can you identify any	2	A. I think that's a fair a
3	peer-reviewed literature looking at	3	
4	labor's share of revenues as the variable	4	fair concept.
5		5	Q. And is it is it correct
6	of interest in determining	6	that standard economics would predict
7	anticompetitive impact?  MR. CRAMER: Form. Asked	7	that a worker's compensation would be
8	and answered.	8	equal to that marginal revenue product of labor?
9	THE WITNESS: I don't know	9	
10		10	A. In a competitive environment, the labor's share of his or
11	if I'm if I'm going to be able	11	her marginal revenue product tends
12	to call up names of particular articles off the top of my head,	12	towards higher values, and the limit
13		13	
14	but I can tell you that that	14	would would approach his or her
15	the wage share of marginal revenue	15	marginal revenue product.
16	product is the way that you	16	Q. And in a competitive environment, standard economics would say
17	understand competition in	17	•
18	competitive labor markets and how	18	that the actually, let me start over.
19	you understand the opposite. BY MR. ISAACSON:	19	When you expressed that
20		20	marginal revenue product is labor or
21	Q. All right. The and I think and I'll come to that subject	21	wages, do you ordinarily do that in dollar terms or in a fraction of the
22	· ·	22	firm's revenue?
23	right now, but right now you can't tell me any peer-reviewed literature that	23	
24	looked that analyzes anticompetitive	24	MR. CRAMER: Objection to form.
24	Page 115	24	Page 117
1	impact by looking at labor share of	1	THE WITNESS: Do I
2	revenues; is that right?	2	ordinarily do it? I'm sorry, I'm
3	MR. CRAMER: Asked and	3	just not following.
4	answered.	4	BY MR. ISAACSON:
5	THE WITNESS: I believe I've	5	Q. How about in standard
6	cited some in my report, but	6	economics?
7	sitting here I can't I can't	7	MR. CRAMER: Same objection.
8	tell you a particular article.	8	THE WITNESS: I think that
9	BY MR. ISAACSON:	9	in standard economics you would
10	Q. All right. If you look at	10	put the wage in the numerator and
11	page 120 of your report, footnote 454?	11	you'd put the marginal revenue
12	A. Yes.	12	product in the denominator.
13	Q. You talk about elementary	13	BY MR. ISAACSON:
14	economics which shows that competitive	14	Q. And the marginal revenue
15	firms paid labor a share of revenue	15	product would be expressed as a dollar
16	commensurate with labor's productivity	16	value?
17	based on a marginal product to labor.	17	A. Yes.
18	That's the principle that	18	Q. And do economists ordinarily
19	you were just discussing with me?	19	measure the productivity of the
20	A. Yes.	20	additional output well, let me put it
21 22	Q. Is that right?	21	differently.
23	And now the marginal	22 23	Do economists generally
1 <sup>2</sup> 2	revenue product labor is the value of the		measure the productivity created when a
24	additional output created when a firm	24	firm adds a worker in dollar terms as

	Page 118	Ĭ	Page 120
1		1	_
1 2	opposed to as a percentage of revenue?  MR. CRAMER: Objection to	1 2	Q. Well, I didn't ask about the brand.
3	form, to generally. For what	3	The you would agree
$\frac{1}{4}$	purpose?	4	you would agree with me that effective
5	THE WITNESS: A firm could,	5	marketing and promotion could increase
6	if a firm bills if a law firm	6	the average revenue per event, correct?
7	bills an associate out at \$400 an	7	A. Yes.
8	hour, it could express what the	8	Q. And you would agree with me
	what the young lawyer's salary on	9	that super improving television
10	an hourly basis is as a under	10	production can increase the average
11	an assumed utilization rate as a	11	revenue per event?
12	percentage of that young lawyer's	12	MR. CRAMER: All things
13	bill rate.	13	equal?
14	BY MR. ISAACSON:	14	MR. ISAACSON: Yes.
15	Q. And are you aware of any	15	THE WITNESS: I'm not sure
16	studies which express the marginal	16	what what you mean by improving
17	revenue product of labor in terms of the	17	television production.
18	percentage of revenue of the firm?	18	BY MR. ISAACSON:
19	A. I'm not aware, but as you've	19	Q. A better production that
20	expressed it, that's not quite what I'm	20	people enjoy more.
21	doing either.	21	MR. CRAMER: Objection to
22	Q. Now, in terms of did you	22	form.
23	make any effort to measure the marginal	23	THE WITNESS: And you're
24	revenue product of labor of UFC fighters?	24	asking me if I can conceive of
2.1	Page 119	2.1	Page 121
1	A. Yes.	1	this as a matter of theory?
2	Q. Okay. And what would you	2	BY MR. ISAACSON:
3	point to me for that?	3	Q. Yes.
4	A. What I did, which is I I	4	A. As opposed to whether it
5	calculated the average revenue per event,	5	actually happened?
6	per fighter, and I'm using that as a	6	Q. Yes.
7	proxy for the marginal revenue product.	7	A. I think I'm I'm going to
8	Q. All right. If the	8	grant you that as a matter of theory one
9	average when you look at the average	9	could one could add value by
10	revenue per event, per fighter, how do	10	increasing the quality of the production.
11	you determine what part of that revenue	11	Q. Okay. Now, in this case,
12	is the contribution of the fighter as	12	you did not do an actual study yourself
13	opposed to, for example, marketing,	13	of the contribution of the UFC fighters
14	promotions, production or the work of the	14	to the average revenue per event; is that
15 16	overall firm?	15	right?
16	A. So for my purposes, I don't	16	MR. CRAMER: Asked and
17	need to figure out that that	17	answered.
18	decomposition. I will note, however,	18	THE WITNESS: I think that's
19 20	that I cite a study in my literature	19 20	correct. As I noted a few moments
21	review section that suggests that the	21	ago, that was not necessary for my
22	fighter is responsible for, if not all,	22	purposes.
23	the vast majority of of the	23	BY MR. ISAACSON:
24	pay-per-view revenues that are captured and not the brand.	24	Q. By using the average revenue per event, per fighter as a proxy, were
	and not the diang.	Z 4	per event, per fighter as a proxy, were

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_		_	
1	more a valuable fighter is going to a	1	fighters 1 through 15; is that correct?
2	more highly ranked fighter is going to	2	A. Oh, not just in the
3	generate more attention, more sales with	3	headliner definition. I've I've
4	pay-per-view.	4	employed rank weighting in others as
5	Q. And if the same fighter	5	well.
6	fought for Zuffa and Bellator in the same	6	Q. Okay.
7	year and the Zuffa event generated more	7	A. When you when you start
8	revenue, that fighter would receive a	8	to combine fighters ranked 1 through 650
9	higher weight in the foreclosure share	9	within a given weight class, you have a
10	calculation when he or she fights for	10	real issue of how valuable is it on a
11	Zuffa rather than Bellator; is that	11	relevant basis to lock up number 1 versus
12	right?	12	number 650. The notion being that 1 is
13	A. That would only be true	13	more valuable, and the question is how do
14	under the revenue weighting approach.	14	you how do you express that
15	It's not true under the other under	15	mathematically.
16	the other approaches.	16	So one approach to that, of
17	Q. Right. Under the revenue	17	course, is to is to give more weight
18	weighting approach, if the same fighter	18	to the higher ranked fighter.
19	fights for Zuffa and Bellator in the same	19	Q. And let me understand how
20	year and the Zuffa events generate more	20	you did express the inverse ranking. For
21	revenue, that same fighter would receive	21	the inverse ranking, if you had the
22	a higher weight in the foreclosure share	22	number 1 fighter and the number 15
23	calculation when he or she fights for	23	fighter in a weight class, the number 1
24	Zuffa; is that right?	24	fighter would be weighted 15 times more
	Page 139		Page 141
1	MR. CRAMER: Asked and	1	than the number 15 fighter?
2	answered.	2	A. I think that's fair. I
3	THE WITNESS: I think I put	3	talked over you. I'm sorry. Yes, that's
4	it in a way that that I	4	fair.
5	preferred. I hear that as the	5	Q. And number 6 is weighted
6	same question.	6	twice as much as number 12?
7	BY MR. ISAACSON:	7	A. I think that's how the math
8	Q. Well, you didn't actually	8	works, yes.
9	oh, okay. You did say it was true under	9	Q. And did you do inverse
10	the revenue weighting approach. That's	10	ranking for 1 through 650?
11	right. I'm sorry. I only caught what	11	A. I believe there is a
12	you said it was not true for.	12	specification, it may not be in one of
13	The sometimes I ask the	13	the tables, but I think that we have done
14	same question if I'm trying to get the	14	inverse ranking under all of the market
15	answer.	15	definitions, including the ranked
16	A. That's okay.	16	definition.
17	Q. The now, you mentioned	17	Q. And when you went to, say,
18	the non-revenue weighting measures, and	18	600, would the number 1 fighter be
19	one of those was where you weighted by	19	weighted 600 times the number 600
20	rank; is that right?	20	fighter?
21	A. To be precise, the inverse	21	A. Yes.
22	of the rank, yes.	22	Q. Okay. And what's your basis
23	Q. And inverse ranking means	23	for using that inverse weighting, that 1
24	you you were looking at ranked	24	compared to 15 is 15 times as much, as

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1		1	
2	opposed to number 1 is worth something more than number 15.	2	A. I've defined headliners very
3		3	precisely as 1 through 15. I think the term headliners can connote other
	A. Right. So the basis is the record evidence in the case. The record	4	other numbers.
4		5	
5	evidence tells us that the purpose of		Q. And in the example that I've
6	the of the exclusionary arrangements	6 7	given of the number 1 fighter and the
7	is to tie up the most valuable fighter so	1	number 10 fighter, those would both be
8	as to prevent rivals from getting a	8	headliners within your definition?
9	foothold.	9	A. Correct.
10	So that tells me	10	Q. And the number 1 fighter
11	qualitatively that it's more valuable to	11	would be worth ten times as much as the
12	have 1 through 15 sewn up than, say, 75	12	number 10 fighter, that's correct?
13	through 90.	13	A. Under the
14	Now the question is, how can	14	Q. We're only talking about the
15	I, as an economist, quantify that that	15	inverse rank weighting.
16	difference in valuation, and I've tried	16	A. Good.
17	revenue weighting, I've tried rank	17	Q. I'm correct that under the
18	weighting and inverse rank weighting and	18	inverse rank weighting, the number 1
19	I've tried unweighted. And at the end of	19	fighter would be weighted ten times as
20	the day, my my basic regression model	20	much as the number 10 fighter; is that
21	is not sensitive to how how one does	21	right?
22	the weighting.	22	A. Correct.
23	Q. I'm just focusing now on	23	Q. And there's nothing in the
24	your inverse ranking analysis. And I	24	record that would support that relative
	Page 143		Page 145
1	understand that you concluded the number	1	difference between the number 1 fighter
2	1 fighter, for example, is more valuable	2	and the number 10 fighter?
3	than the number 10 ranked fighter, but	3	MR. CRAMER: Misstates the
4	what's the basis for quantifying that as	4	testimony.
5	the number 1 fighter is ten times more	5	BY MR. ISAACSON:
6	worth ten times more than the number 10	6	Q. Is that correct?
7	fighter?	7	A. That is not correct.
8	A. I think there is record	8	Q. Okay. What would you point
9	evidence suggesting that it would be	9	me to?
10	sufficient to lock up only the headliners	10	A. I would point you to the
11	in order to to cripple or to slow the	11	section where I describe the basis for
12	advance of a rival promoter.	12	headliner submarket, and I think the
13	So what the record evidence	13	record is very clear on this that that
14	is telling me is that is that 1	14	the headliners are more valuable in the
15	through 15, for example, are more	15	eyes of the of the MMA promoters.
16	valuable than 75 through 90. The record	16	The question is is how do
17	evidence doesn't necessarily tell me how	17	you express that higher value in a way
18	to give those fighters more weight. So	18	that a computer can understand it for the
19	what I decided to do for one	19	purposes of performing a regression
20	specification was to weight a fighter	20	analysis and that's where I come in as an
21	based on his or her inverse rank.	21	economist, that's where my value added
22	Q. All right. So when you say	22	is, if you will. Silva is not going to
23	headliners, you mean number those	23	
24		24	tell me, go get the inverse go get the rankings and use inverse in your
<b>⊿</b> Ѣ	ranked 1 through 15, correct?	<sup>2</sup>	rankings and use inverse in your

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1	regression. That's not that's not how	1	BY MR. ISAACSON:
2	he thinks, that's not that's not his	2	Q. Right.
3	job, that's not what he does. He says, I	3	A. Number 10, to be clear,
4	want to lock up if you lock up these	4	cannot cannot advance by fighting
5	people, I can thwart or cripple the	5	number 13.
6	development of of rival MMA promoters.	6	Q. And I understand that you're
7	Q. Right. But in my example,	7	saying the record evidence says that the
8	I'm talking about the relative value of	8	one is more valuable than the other, but
9	two headliners.	9	I think you understand I'm talking about
10	A. Sure.	10	the magnitude of the weighting that you
11		11	
12	Q. Number 1 and number 10	12	are giving it.
13	$\mathcal{E}$		The what record evidence
		13	is there that supports the magnitude of
14	~	14	weighting that you are giving it? For
15	5	15	example, the number 1 fighter being worth
16		16	ten times more than the number 10
17	between a number 1 ranked fighter and	17	fighter, both of whom are headliners.
18	number 10 fighter would be on a	18	A. Right.
19	1 1	19	MR. CRAMER: Asked and
20	MR. CRAMER: By number 1 you	20	answered.
21	mean the champion, is that what	21	THE WITNESS: I think you
22	you mean?	22	see this in the in the higher
23	MR. ISAACSON: Ranked number	23	sales of pay-per-view when the
24	1. I don't know if that's always	24	event features a higher ranked
	Page 147		Page 149
1	the champion.	1	fighter.
2	THE WITNESS: The reason why	2	If you were if you were
3	1 is more valuable than 10 is	3	going to run two promotions, and
4	that is that the way that you	4	the highest ranked fighter in one
5	advance in the MMA and the way	5	was 10, compared to the highest
6	that you you achieve higher and	6	ranked fighter in the other is 1,
7	higher compensation and notoriety	7	you would expect, all things
8	and fame is by beating someone who	8	equal, that the one with 10 as the
9	is ranked higher than you.	9	highest would generate less
10	So you can't attract quality	10	revenue.
11	fighters to your to your league	11	The the record evidence
12	unless you can offer him or her	12	speaks to this, the data speaks to
13	these opportunities for	13	this, the economic literature
14	advancement.	14	speaks to the importance of
15		15	fighter identities in determining
16	•	16	pay-per-view revenues.
17	advance, are more valuable.	17	So I feel very confident
18	They're more valuable to the	18	that there is that there is a
19	fighters, they're more valuable to	19	basis for giving more weight under
20	the promoters, they're more	20	the ranked weighting method. And
21	valuable to the consumer.	21	then the question becomes how, as
22	The record there's a ton	22	an economist does, one implement
23	of record evidence telling me that	23	that or effectuate that.
24	1 is more valuable than 10.	24	BY MR. ISAACSON:

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1	Q. All right. Let's talk about	1	Q. Okay. And how did you
2	the non-headliners.	2	decide that the 30-month threshold was
3	So in your inverse ranking	3	appropriate?
4	method, the number 100 fighter would be	4	A. Primarily two ways. If you
5	worth six times that of the number 600	5	go to my report, there might be others,
6	fighter?	6	but the first was I'm familiar with
7	A. Sure.	7	with various case law that speaks to what
8	Q. And what in the record shows	8	constitutes a contract of sufficient
9	that magnitude of difference in value?	9	duration to be considered exclusionary.
10	A. Oh, I think that you can go	10	And second basis was that
11	to so we have a lot of evidence that	11	I I looked at the average and medium
12	speaks to qualitatively the difference in	12	duration of a fighter and I I wanted
13	value, and I think what you're pressing	13	to make sure that that the number that
14	on is quantitatively.	14	I went with as the cutoff represented a
15	Q. Yes.	15	sizable or significant or material share
16	A. Right? Well, I just want to	16	of the from an economic perspective of
17	make sure that	17	the fighter's average career span.
18	Q. That's why I keep saying	18	Q. I should have asked you this
19	magnitude.	19	before. When we were looking at Figure
20	A. Okay. But I'm using I'm	20	1, market share and 2 and Figure 3,
21	using everything as the basis. I'm	21	which is foreclosure share, foreclosure
22	looking at the record evidence and	22	share is the result of your regression?
23	looking at data. But I would point you	23	A. No.
24	to data showing that higher pay-per-view	24	Q. Is that right?
	Page 151		Page 153
1	revenues, variations in pay-per-view	1	A. No. So foreclosure share
2	revenues can be explained by by who is	2	would be an input to the regression,
3	being offered, the rank of the of the	3	right? And so you can do one pass, which
4	fighter that's being offered for that	4	I did, which is to presume that all
5	particular event.	5	fighters working under under a Zuffa
6	Q. The you mentioned the	6	contract will foreclose. That's one
7	subject before, but let me go over it.	7	approach. And in that case, foreclosure
8	Now, in calculating the	8	share just equals Zuffa's market share.
9	foreclosure share, you used two	9	And so whenever a fight or event pair
10	alternative definitions. One was all	10	shows up in the regression database,
11	Zuffa fighters compared to total MMA	11	you'll see a measure of foreclosure
12	fighters weighted by revenue, and the	12	share, which is just equal to the market
13	other was I'm sorry. Actually, I	13	share.
14	think I got that right.	14	Under a second approach, you
15	So in calculating	15	can you can allow the foreclosure
16	foreclosure share, you used two	16	share to deviate from the market share by
17	alternative definitions. One was all	17	insisting that not only does the fighter
18	Zuffa fighters compared to total MMA	18	work for Zuffa, but the fighter also
19	fighters, and the other you only included	19	fights pursuant to a contract that
20	fighters whose contracts contained a	20	contains a championship clause, is
21	champions clause and had a 30-month or	21	exclusive and runs longer than equal
22	longer period of exclusivity.	22	to or longer than 30 months.
23	Do I have that right?	23	Q. All right. So for some of
24	A. I think that's fair.	24	your models you used a foreclosure share

	Page 154	4		Page 156
1	that was equal to the market share, and	ı	1	deviate from market share.
2	some you used a foreclosure share that	Ш	2	Q. Okay. Now, would you
3	deviated from the market share; is that	Ш	3	explain to me how the foreclosure
4	correct?	Ш	4	share the process of allowing the
5	A. Yes.	Ш	5	foreclosure share to deviate from market
6	Q. All right. And when you	П	6	share?
7	let's go back to our favorite tables.	- 1	7	A. Oh, it's just a more
8	Table 8, which was page 155.	- 1	8	stringent standard that I apply. So
9	A. I'm sorry, 155?	- 1	9	under one approach you presume that
10	Q. Yes.	- 1	10	everybody fighting pursuant to a Zuffa
11	A. I'm getting there. Okay,	- 1	11	contract is foreclosed, and I gave the
12	I'm there.	- 1	12	bases bases for why one could
13	Q. That's your that's the	- 1	13	reasonable do that under one approach.
14	result of your impact regression. Did	- 1	14	And then I said, in a second
15	you use a foreclosure share that was	- 1	15	pass, let's let's let's raise the
16	equal to market share or that deviated		16	bar, let's make them let's create a
17	from it?		17	more stringent standard. Now it's not
18	A. Well, remember, when you	- 1	18	just sufficient just to just to have
19	when you fit the regression model, you're	- 1	19	fought pursuant to any old Zuffa
20	using actual foreclosure share. Actual	- 1	20	contract, it's got to be a contract with
21	foreclosure share can be measured in many	- 1	21	very specific parameters in it.
22	ways, right?		22	So what's going to happen as
23	When you when you go to		23	you toggle between the two, is that you
24	predict what an individual fighter would	- 1	24	may have considered someone to be
2 1	Page 15	-	21	Page 157
1			1	
1	have received in the but-for world and	Ш	1	foreclosed under the first approach, but
2	you set the foreclosure share to, in this	Ш	2	yet he or she is not foreclosed under the
3	table, zero or 20 percent.	Ш	3	second approach.
4	Q. Right. I'm talking about	Ш	4	Q. And so would that be
5	the actual foreclosure share. We've	Ш	5	numerically expressed by the difference
6 7	already established that your but-for	Ш	6 7	between the lines in Figure 1 and Figure
l '	shares were zero, 20 or 30 percent. I	Ш		3?
8	don't want to go back over that.	П	8	A. I think that's that's
9	A. Okay.	П	9	generally fair.
10	Q. Okay. In looking at the	- 1	10	Q. I want to see if I can look
11	impact regression, the common impact	- 1	11	at them.
12	regression, Table 8, when you use actual	- 1	12	So the market shares in
13	foreclosure, did you use market share or	- 1	13	Figure 1 were not used as inputs for
14	something that deviated from market		14	actual foreclosure in your impact or
15 16	share?		15 16	damages models, correct?
16 17	A. Oh, I believe it was the	- 1	16 17	A. No, they were, right? I'm
17	foreclosure share that was allowed to	- 1		telling you that I've done I've done
18	deviate from market share.	- 1	18	anticompetitive effects and impact using
19	Q. Okay. And what about the	- 1	19	various measures of foreclosure share,
20	two regressions that we've gone over	- 1	20	one that's triggered merely by virtue of
21	before by which you estimated damages?	- 11	21	being an employee of Zuffa or fighting
22	A. The same answer. I believe	- 1	22 23	pursuant to a Zuffa contract and others
23	that the ones in the damages involved	П	<b>∠</b> 3	where I apply more stringent standard.
24	the foreclosure share that is allowed to	Ш	24	If what you're asking me is

	Page 162		Page 164
1		1	that a duration on its face?
1 2	combination of multiple factors, the most likely being that the duration of the	1   2	MR. CRAMER: Objection to
3	contracts back in that period were not	3	form.
4	sufficiently long so as to turn on any	4	BY MR. ISAACSON:
5	particular fighter as being foreclosed.	5	
6	You also have times of lower	6	Q. Meaning as opposed to how much time is left on the contract?
7		7	
8	market share. So a lot of things are	8	MR. CRAMER: Objection to form.
9	contributing to to why Zuffa's foreclosure share would be that small way	9	THE WITNESS: It means that
10	back in 2005.	10	
11		11	at the time the fighter shows up
12	Q. So as I understand Figure 3,	12	in the relevant market, we go look
13	what you've done is you take the market	13	at the fighter's contract and make a determination if that contract
	share numbers on page 88, Figure 1, and	14	
14	you eliminate all the fighters who are	15	contains provisions such that the
15 16	do not have champions clauses and do not		duration of that contract exceeds
16	have a contract with a duration of over	16	30 months.
17	30 months?	17	BY MR. ISAACSON:
18	A. That is one way of thinking	18	Q. And though when we're saying
19	about it. I think you would get to the	19	the duration of the contract, if I'm
20	same place. I think about it slightly	20	halfway through a contract, there's a
21	differently, but I think that would get	21	difference between the duration of the
22	you to the same place.	22	contract at the time of signing and the
23	Q. Okay. And when you say	23	remaining duration of the contract. I'm
24	for Figure 3, it includes the it says	24	trying to understand whether you're using
	Page 163		Page 165
1	it includes the time Zuffa fighters	1	the remaining duration of the contract or
2	duration of greater than 30 months. Does	2	the duration term at the date of signing?
3	it also include Zuffa fighters with	3	A. The latter. We're using the
4	champions clauses with durations less	4	duration of the contract at the time
5	than 30 months?	5	at the time of signing.
6	A. No, right? Because you	6	Q. And and from your study,
7	need you need the champions clause	7	what are the acts of Zuffa in this case
8	for this for this measure you need the	8	which are driving the increases in
9	champions clause, which turns out almost	9	foreclosure that are that we can see
10	of them have anyway, plus duration, terms	10	in Figure 3. So the lines are obviously
11	of extended duration to 30 months or	11	going up sharply.
12	greater.	12	MR. CRAMER: Objection to
13	Q. All right. And so what's	13	the form.
14	really happening is that between Figure 1	14	You can answer if you
15	and Figure 3, because almost all	15	understand it.
16	contracts have champions clauses, is	16	THE WITNESS: I think that
17	you're removing the contracts from the	17	the the primary driver, the
18	market that have durations of less than	18	acts part of the challenged
19	30 months?	19	conduct that's driving the
20	A. That is largely what would	20	foreclosure if you think about how
21	be the driving distance between the two,	21	it's being triggered, are the
22	yes.	22	restrictions in the fighter
23	Q. And when you say they have a	23	contracts, those are doing the
24	duration of greater than 30 months, is	24	heavy lifting here, and that's the
L⊐T	duration of greater than 50 months, 18	<u> </u>	neavy mung nere, and that 8 the

	Page 166		Page 168
1	exclusive provision plus the	1	contracts that are deemed exclusionary
2	other the other provisions that	2	will cause the foreclosure share to go
3	cause the contract's duration to	3	up.
4	exceed 30 months.	4	Q. Okay. And if we don't hold
5	BY MR. ISAACSON:	5	the market share concept, we use Zuffa's
6	Q. All right. Now, would this	6	actual market share, is Zuffa's
7	chart tell you that that the number or	7	proportion of contracts with duration of
8	percentage of contracts I guess both	8	30 months risen since 2005, to your
9	the number and percentage of contracts	9	knowledge?
10	that Zuffa has with fighters with	10	A. If I'm understanding your
11	duration over 30 months has increased	11	question correctly, I just if I can
12	from 2005 to 2011?	12	put it in my own words, the if the
13	A. Can I just hear that back?	13	numerator is the is Zuffa contracts
14	I'm sorry.	14	that are deemed exclusionary and
15	Q. Sure. Does this chart	15	sorry, fighters who are working pursuant
16	maybe I'll even put it differently.	16	to a Zuffa exclusionary contract, that's
17	Is this chart telling you	17	in the numerator, and the denominator is
18	that the number or percentage of	18	all fighters in the relevant market. So
19	contracts that Zuffa has been entering	19	to the extent that Zuffa either adds more
20	with 30-month durations has been	20	fighters through, say, acquisition, and
21	increasing since 2005?	21	funnels them into these same exclusionary
22	A. I think that's one potential	22	contracts, or to the extent that Zuffa
23	inference. I just want to add a caveat	23	extends the terms of the contracts such
24	that just to help help understand	24	that the duration starts to exceed 30,
	Page 167		Page 169
1		,	
1	if that's okay. And that is the	1	either of those will cause the
2	foreclosure share can also be going up	2	foreclosure share to increase.
3	because Zuffa's market share is going up.	3	Q. Okay. And do you believe
4	I don't know if that's captured in your	5	both of those were driving the increase in foreclosure share?
5	word percentage.		
6	Q. I'm going through one thing	6	A. Yes.
	at a time so, but one and I'm trying		Q. And when you mentioned
8	to understand the things you think would	8	extensions. So when you are
9	be significant drivers of the increasing	9	incorporating contracts with a duration
10	foreclosure share.	10	of greater than 30 months, if you have a
11	One thing that you, from	11	contract with a duration of less than
12	your investigation, would believe is	12	30 months that is extended before the end
13	driving the increase in foreclosure share	13	of the term to be greater than 30 months,
14	would be Zuffa has been entering more	14	does that get included?
15 16	contracts since 2005 that have durations	15	A. No. So in that sense we're
16 17	of over 30 months?	16	being very conservative. So if you if
17	A. And what I'm asking you to	17	you marry up two 20-month contracts, and
18	do is, can we do the ceteris paribus	18	do it in a way that that is strategic
19	assumption such that Zuffa's market share	19	so as to force the fighter to move into
20	is being held constant? So what I'll	20	the second as a condition of, say,
21	agree to maybe this will help, maybe	21	getting a good placement on a card, if
22	it doesn't help, is that is that	22	you strung together two 20s to achieve a
23	holding Zuffa's market share constant, a	23	40, that would not be considered an
24	higher percentage of of Zuffa	24	exclusionary contract under this

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1	what you're asking me to assume is	1	
2	to assume there are no artificial	2	appropriate wage. A. Yes.
3	restrictions. I I don't know.	3	Q. Are the Bellator is
		4	
5	I'm trying when you say stand	5	Bellator paying the fighters higher
6	alone, you need to give me more	6	average wages than the UFC?
7	context. BY MR. ISAACSON:	7	A. I'd say it depends on which
8		8	fighter you're talking about, but
9	Q. That would be fine. Go	9	Q. I said average.
10	ahead and assume there are no artificial	-	A. Yeah, the weight sorry.
11	barriers to entry, there would remain the	10 11	MR. CRAMER: I was going to
12	natural barriers to entry that you've		say you mean today, Bellator?
	identified, do you consider those to be	12	MR. ISAACSON: At any time.
13	high barriers to entry?	13	THE WITNESS: The the
14	A. I consider them to be	14	levels of a Bellator or a
15	economically significant in the sense	15	Strikeforce fighter on average
16	that it might be hard for you or I to	16	would tend to be below the levels
17	enter tomorrow in a timely and seamless	17	of the UFC fighters.
18	way. But I think that a person like Mark	18	BY MR. ISAACSON:
19	Cuban with access to capital and	19	Q. So why, in economic theory,
20	experience in television and having his	20	would you use the percentage of revenues
21	own TV channel, there could likely	21	that a competitor allocates to the labor
22	overcome the natural barriers.	22	as a benchmark as opposed to the the
23	Q. The Strikeforce and Bellator	23	actual appropriate wage that they decided
24	benchmarks, we talked about those this	24	to pay?
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1	morning for purposes of damages.	1	A. Here's why: The record
2	A. Yes.	2	evidence tells us that Zuffa had its eye
3	Q. I'm going to return to that	3	on the wage share, not the absolute wage,
4	topic.	4	they had its eyes on the wage share.
5	In those benchmarks, you are	5	They were committed to pushing the wage
6	using two competitors of of Zuffa	6	share at or below 20 percent. This is
7	comparing the percentage of their	7	how the industry works, this is how they
8	revenues paid to labor or paid to the	8	think.
9	fighters to that of Zuffa. I think we've	9	Now, imagine a but-for world
10	established that, correct?	10	in which you strip out the exclusionary
11	A. Correct.	11	contracts and Strikeforce and Bellator
12	Q. Okay. Why in economic	12	and others are able to evolve into
13	theory would you use the percentage of	13	legitimate and viable contenders for this
14	revenue paid to labor by a competitor as	14	market, what would likely happen is that
15	a benchmark?	15	their output would expand, their revenues
16	A. Because this is a voluntary	16	would expand and now their 60 percent
17	transaction between a willing buyer and a	17	offerings, or in the case of Bellator
18	willing seller as to the appropriate wage	18	their 48 percent offerings, would start
19	in the in the MMA industry. And so I	19	to draw fighters away from UFC and
20	think if we're looking for for	20	towards those rivals.
21	reasonable comparables that exist within	21	And now the question is what
22	the same relevant market, this is the	22	does Zuffa have to do in this in this
23	logical place to start looking.	23	but-for world? Is Zuffa able to stay on
24	Q. When you use the term	24	its 18 percent share when were all of its

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1	Q. Right. And I understand you	1	Q. And is there any description
2	know what you're trying to do.	2	of those broad standards in your field
3	A. Oh, but I	3	that you would consider authoritative?
4	Q. I'm trying	4	MR. CRAMER: Asked and
5	A. I'm trying to do it pursuant	5	answered.
6	to the standard. The standard says find	6	THE WITNESS: I'd want to
7	a competitive benchmark.	7	see the article. I would want to
8	Q. Right. And what in	8	see the article before I
9	determining what is a competitive	9	considered it authoritative.
10	benchmark, are there any standards that	10	BY MR. ISAACSON:
11	you're able to tell us today for doing	11	Q. But meaning today you
12	that, again for determining	12	can't point to anything authoritative in
13	anticompetitive effect or damages in an	13	your field that would establish the broad
14	antitrust case?	14	standards for determining whether two
15	A. Yes, and the standard, I'm	15	firms are similarly situated in doing the
16	going to say it again, is you're looking	16	benchmark analysis?
17	for a similarly situated firm that is	17	MR. CRAMER: Asked and
18	operating free from the challenged	18	answered.
19	conduct. That's what you're trying to do	19	THE WITNESS: Can I hear it
20	and that's what I did.	20	again? I'm sorry.
21	Q. Right. And in determining	21	BY MR. ISAACSON:
22	what a similarly situated, are there any	22	Q. Today you can't point to
23	standards for that?	23	anything authoritative in your field that
24	A. I don't think that there are	24	would establish the broad standards for
	Page 215		Page 217
1	a set of ironclad standards that that	1	determining whether two firms are
2	are going to apply in every instance. I	2	similarly situated in doing the benchmark
3	think that there are some broad standards	3	analysis?
4	and I think that when you get to the	4	MR. CRAMER: Asked and
5	application, the economist has to use	5	answered.
6	some judgment in making a determination	6	THE WITNESS: I can't think
7	as to what constitutes a good benchmark.	7	of a particular article, no.
8	Q. All right. And when you say	8	THE VIDEOGRAPHER: Counsel,
9	you think I understand you're going to	9	we have nine minutes left to the
10	use your judgment. But when you say, I	10	end of this disk.
11	think there's some broad standards,	11	MR. ISAACSON: Let's see if
12	right, is there a description of those	12	I can do something in five
13	broad standards or a list of those broad	13	minutes.
14	standards that you looked at before you	14	BY MR. ISAACSON:
15	did your report?	15	Q. Paragraph 253. I think we
16	MR. CRAMER: Asked and	16	agree when we've been talking about your
17	answered.	17	damages estimates today, they've been
18	THE WITNESS: I'm familiar	18	about the bout class. So let's talk
19	with the literature but I did not	19	about your damages to the identity class,
20	go back and consult one person's	20	or at least get a start on that.
21	article in an ABA journal that	21	Did you do any common impact
22	would tell me what he or she	22	analysis for the identity class?
23	thought would be the standards.	23	A. Sure, I have a section
24	BY MR. ISAACSON:	24	titled Common Impact For the Identity



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1	Class where I demonstrate what I consider	1	A. Correct.
2	to be a rigid pricing structure when it	2	Q. And that was a
3	comes to identity payments.	3	recommendation that was not accepted?
4	Q. Okay. And did you do any	4	A. Oh, I'm not sure that's my
5	separate economic modeling such as you	5	understanding.
6	did for the bout class?	6	Q. Okay. Do you know whether
7	A. No, I did not.	7	or not the \$2,500 that you used for
8	Q. The and you have two	8	estimating damages was a proposal or
9	methods of estimating damages for the	9	something that was actually implemented?
10	identity class as I understand it. One	10	A. My understanding was that it
11	is that you take the percentage increase	11	was the lower bound of something that was
12	in revenue that would be paid as the	12	ultimately implemented.
13	fighter share, the increased percentage.	13	MR. ISAACSON: Okay. All
14	So for example, if the fighter share went	14	right. Why don't we take a break?
15	from 50 to 75 percent, that would be a 25	15	THE VIDEOGRAPHER: The time
16	increase in fighter share, and then you	16	is 2:10 PM. This is the end of
17	apply that percentage increase to the	17	Disk 2. We are off the record.
18	identity payments actually made to	18	(Recess.)
19	fighters?	19	THE VIDEOGRAPHER: The time
20	A. Close. As stated in	20	is 4:26 PM (sic). This is the
21	percentage terms, and I give the I	21	start of Disk No. 3 and we are now
22	give the sample in paragraph 253 where I	22	on the record.
23	put the but-for share	23	BY MR. ISAACSON:
24	Q. Yes.	24	Q. You can look at
	Page 219		Page 221
1	A. Over the right, over the	1	MR. CRAMER: The time is
2	actual share, and then I multiply that by	2	what?
3	the payments that were made, correct. I	3	THE VIDEOGRAPHER: 2:26 PM.
4	mean, so long as that's what you're	4	I'm sorry.
5	saying, we're on the same page.	5	MR. CRAMER: Okay.
6	Q. I think we're saying the	6	BY MR. ISAACSON:
7	same thing.	7	Q. If you could look at page
8	A. Okay.	8	154 of your report, Table 7, which
9	Q. But you're applying the	9	displays the results of your first
10	percentage increase in the fighter share	10	analysis of common econometric
11	to the absolute payments for the identity	11	analysis of common impact. We've looked
12	payments?	12	at this before.
13	A. Yes.	13	A. Yes.
14	Q. All right. The and other	14	Q. And it says bout class
15	method of damages is you take the a	15	compensation structure. And in paragraph
16	minimum payment of \$2,500 and multiply	16	228 when you're discussing this, in the
17	that by the number of the ancillary right	17	first sentence I've actually said this
18	contracts?	18	sentence several times, I think:
19	A. The PARS, P-A-R-S, yes.	19	"I performed regressions to
20 21	Q. PARS is not always self-	20 21	determine whether gains or losses in compensation are broadly shared across
		141	compensation are proadly snared across
	explanatory.		
22	And the \$2,500 figure comes	22	the bout class."

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1	is part of your analysis of what makes a	1	A. I don't have an opinion.
2	contract 30 months or longer?	2	Q. Okay. Do you, together with
3	A. No. No, there are few	3	contracts, inclusive contracts that are
4	the retirement clause and some other	4	30 or more months, do the is it your
5	tolling provisions were not counted in	5	opinion that the exclusivity provisions
6	when I went to add up the durations. In	6	with venues increase the foreclosure
7	that sense, my my method is	7	share of Zuffa?
8	conservative.	8	MR. CRAMER: Objection to
9	Q. All right. The so the	9	form.
10	retirement clause or another tolling	10	THE WITNESS: I think that
11	provisions of the contracts, in the	11	in conjunction with the primary
12		12	restrictions on fighter mobility,
13		13	the exclusives on the venues can
14	<i>U</i> , <i>J</i>	14	be can be considered to be
15		15	anticompetitive.
16		16	Whether they contributed to
17	And you keep you keep	17	higher foreclosure shares, I'd
18		18	I'd have think about it. I
19	, U, J	19	imagine one might construct a
20	exclusive plus duration.	20	story, but I'd have to I'd have
21	Q. Right. Understood.	21	to think about it some more.
22	A. Okay.	22	BY MR. ISAACSON:
23	Q. The the exclusive	23	Q. Okay. Today you don't have
24	negotiation clause, is that a provision	24	an opinion about whether exclusivity
	Page 259		Page 261
1			
1	that you have taken into account in	1	provisions with venues, even taken
2	calculating the 30 months or more?	2	together with exclusivity agreements with
3	A. Yes.	3	fighters of 30 or more months, would
4	Q. Am I correct that if my	4	increase the foreclosure share
5	colleague will allow me a compound	5	increase the foreclosure share?
6 7	question to save time that items that	6 7	A. Like I said, I can imagine
	you have discussed include preventing the		how they could funnel more fighters into
8	use of fighter clips when you move to a	8	this net and therefore trigger the
9 10	new promotion, moving sponsors with you	9 10	mechanism that's causing the rate
11	when you move to a new promotion, and	11	suppression in my in my models, but I
12	warning fighters not to sign over their	12	don't really have an opinion beyond that.
13	likenesses to other promoters, those	1	Q. In general, we'll save time
14	would you would not have an opinion	13	if you tell me whether you have opinions
15	about whether those actions were	14 15	as opposed to what you imagine.
16	anticompetitive in the absence of	16	A. Okay.
17	exclusive contracts that were 30 or more	17	Q. Or could imagine. I don't
18	months?	18	mean that as a criticism, I mean that as
19	A. I think that's fair.	19	constructive.
20	Q. Okay. And do you have an	20	MR. CRAMER: Constructive
	opinion about whether exclusivity	21	criticism.
21 22	provisions with venues, sponsors or	22	MR. ISAACSON: No, not even
23	broadcasters are anticompetitive in the absence of exclusive contracts of 30 or	23	that. A constructive way to get
24	more months?	24	through the day.  MR. CRAMER: Advice.
<del>-</del> - +	more monuis:	4 t	IVIN. CNAIVIEN. AUVICE.

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1	Q. So any conduct, such as	1	give me the threats or take those away
2	counter-programming that increases	2	and give me the horizontal, we don't get
3	Zuffa's market share would increase the	3	the we don't get the foreclosure.
4	foreclosure share and increase damages?	4	So there's there's only
5	MR. CRAMER: Objection to	5	one necessary element according to this
6	form.	6	model
7	THE WITNESS: It's a little	7	Q. All right.
8	more complicated than that because	8	A and that element are the
9	again you have to you have to	9	restrictions of the exclusive
10	assume that the the contracts	10	exclusivity plus duration.
11		11	Q. So there's one necessary
12		12	element for a foreclosure effect, and
13	<b>3</b>	13	that's the 30-month or more exclusive
14	,	14	contracts, correct?
15		15	A. Yes.
16		16	Q. Okay. And in terms of the
17	3	17	magnitude of the foreclosure effect,
18	$\mathcal{E}$	18	which is charted on Figure 3, are you
19		19	able to segregate out the effect of
20	$\mathcal{C}$	20	30-year (sic) exclusive contracts from
21		21	the other conduct that's been alleged
22		22	such as counter-programming?
23	$\mathcal{C}$	23	MR. CRAMER: Form,
24	A. 115?	24	incomprehensible.
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1	Q. Yes.	1	THE WITNESS: And I don't
2	A. Okay.	2	understand let me try it this
3	Q. You would not be able to	3	way, that because there's only
4	tell me how much of the foreclosure	4	one necessary condition, which are
5	shares here are attributable to conduct	5	these this 30-month exclusive
6	such as counter-programming or exclusive	6	provision, if you take them out,
7	contracts with sponsors, and segregate	7	the foreclosure goes away. So
8	that out from the 30-year (sic) contracts	8	so I would, in a sense, think that
9	that are exclusive?	9	that that is that is what
10	MR. CRAMER: Objection to	10	matters and everything else is
11		11	is just in its presence is
12	THE WITNESS: You have to	12	contributing to the extent it's
13	tell me whether or not we have	13	doing anything, it's contributing
14	exclusive long-term contracts	14	through that mechanism.
15		15	BY MR. ISAACSON:
16		16	Q. I understand what matters to
17	So if you take those away	17	you, and you've been very clear about
18		18	that. But for example, the foreclosure
19		19	percentage for the blue and purple lines
20		20	in 2007 are 30 to 40 percent.
21	BY MR. ISAACSON:	21	Do you see that?
22	Q. But if you	22	A. Yeah.
23		23	Q. All right. And without the
	If you take those away and	24	necessary predicate of the 30-year (sic)

1 contract 30-month exclusive contracts, 2 that would drop to near zero? 3 A. Correct. 4 Q. And 5 A. And so now if you asked me 6 that at point how to do an allocation 7 among 9 A counter-programming, da, 10 da, da, we'd be allocating a pot of zero. 11 Q. Let me ask let me ask 11 good time to break, we've been 2 going for about an hour. 3 MR. ISAACSON: Sure. Well, 4 actually, let me unless you're 4 dying. 6 MR. CRAMER: No, no, go 7 ahead. 8 BY MR. ISAACSON: 9 Q. There are allegations in 10 this case of the use of identity rights 11 of the plaintiffs such as things on Fight 12 questions here. Okay? 12 Pass or on posters or on television 13 The in 2011, both those 14 numbers rise to about 90 percent. Do you 15 see that? The blue and purple lines? 16 A. Yes. 17 Q. Okay. And without the 18 exclusive 30-year contracts, the 19 90 percent would drop to almost zero 19 A. The way that I'd prefer to	
that would drop to near zero?  A. Correct.  Q. And  A. And so now if you asked me  that at point how to do an allocation  among  No, I'm not  A counter-programming, da,  da, da, we'd be allocating a pot of zero.  C. Let me ask let me ask  questions here. Okay?  The in 2011, both those  numbers rise to about 90 percent. Do you  see that? The blue and purple lines?  A. Correct.  MR. ISAACSON:  MR. CRAMER: No, no, go  ahead.  BY MR. ISAACSON:  Q. There are allegations in  this case of the use of identity rights  of the plaintiffs such as things on Fight  Pass or on posters or on television  episodes. You're aware of those?  A. Yes.  Q. Okay. Are those  anticompetitive acts, in your opinion,  that contribute to the foreclosure  exclusive 30-year contracts, the	
A. Correct. Q. And A. And so now if you asked me that at point how to do an allocation R. CRAMER: No, no, go among R. Q. No, I'm not R. A counter-programming, da, C. Let me ask let me ask Q. Let me ask let me ask Cuestions here. Okay? Cuestions here. Okay. Okay. Are those Cuestions here. Okay. Cuestions here. Okay? Cuestions here. Okay? Cuestions here. Okay? Cuestions here. Okay? Cuestions here. Okay. Cuestions here.	
4 actually, let me unless you're 5 A. And so now if you asked me 6 that at point how to do an allocation 7 among 9 A counter-programming, da, 10 da, da, we'd be allocating a pot of zero. 11 Q. Let me ask let me ask 12 questions here. Okay? 13 The in 2011, both those 14 numbers rise to about 90 percent. Do you 15 see that? The blue and purple lines? 16 A. Yes. 17 Q. Okay. And without the 18 exclusive 30-year contracts, the  4 actually, let me unless you're dying. 6 MR. CRAMER: No, no, go ahead. 8 BY MR. ISAACSON: 9 Q. There are allegations in 10 this case of the use of identity rights 11 of the plaintiffs such as things on Fight 12 Pass or on posters or on television 13 episodes. You're aware of those? 14 A. Yes. 15 Q. Okay. Are those 16 anticompetitive acts, in your opinion, 17 that contribute to the foreclosure 18 effect?	
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that at point how to do an allocation among  Q. No, I'm not  A counter-programming, da, Q. Let me ask let me ask questions here. Okay?  The in 2011, both those numbers rise to about 90 percent. Do you  See that? The blue and purple lines?  Q. Okay. And without the exclusive 30-year contracts, the  MR. CRAMER: No, no, go ahead.  BY MR. ISAACSON:  Q. There are allegations in this case of the use of identity rights of the plaintiffs such as things on Fight 12 Pass or on posters or on television 13 episodes. You're aware of those? A. Yes.  Q. Okay. Are those 15 anticompetitive acts, in your opinion, 17 that contribute to the foreclosure 18 effect?	
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16 A. Yes. 17 Q. Okay. And without the 18 exclusive 30-year contracts, the 19 anticompetitive acts, in your opinion, 10 that contribute to the foreclosure 11 that contribute to the foreclosure 12 effect?	
17 Q. Okay. And without the exclusive 30-year contracts, the 17 that contribute to the foreclosure 18 effect?	
18 exclusive 30-year contracts, the 18 effect?	
90 Deficell would glob to affiliost zero 129 A. The way maint different	
23 2011 from 40 30 to 40 percent to 23 anticompetitive, they're exacerbating	
24 90 percent? 24 things, and I don't have an opinion on	
	ge 273
1 A. Uh-huh, yes. 1 whether or not they would be	
2 Q. Right? Are you able to tell 2 anticompetitive on a stand-alone basis.	
3 me how much of that was due to exclusive 3 Q. Okay. And would the use of	
4 contracts of 30 or more months as opposed 4 those identity rights in clips, poster,	
5 to those contracts in combination with 5 television series, are those more the	
6 other things such as counter-programming? 6 result of the alleged anticompetitive	
7 MR. CRAMER: 7 acts in this case, or are they actually	
8 Incomprehensible, form. 8 something that would tend to foreclose	
9 THE WITNESS: I just don't 9 competition?	
understand how you do a 10 MR. CRAMER: Objection,	
decomposition like that when 11 vague.	
there's only one necessary 12 THE WITNESS: I think that	
element. If the necessary element   13 telling a fighter that he or she	
goes, the foreclosure drops to 14 can't take her identity rights	
zero, and the notion of allocating 15 with her to her clips, for	
zero across the other elements is   16 example, to the	
a fool's errand. 17 BY MR. ISAACSON:	
18 BY MR. ISAACSON: 18 Q. Talking about something	
Q. Right. So if it's a 19 different here. I'm not talking about	
20 necessary element to 40 percent or 20 taking clips with you. I apologize for	
21 90 percent, does that tell you why it 21 interrupting.	
rose from 40 to 90 percent? 22 I'm talking about just using	
23 A. No. 23 clips on Fight Pass, using an image in a	
MR. CRAMER: When it's a 24 poster. I'm not talking about	

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1	with respect to, say, a finding of	1	construct a scenario about how
2	monopsony power in the input	2	that could occur.
3	market.	3	BY MR. ISAACSON:
4	BY MR. ISAACSON:	4	Q. All right. The and then
5	Q. Well, you do have findings	5	you've described geographic market for
6	of monopsony power that do rely on	6	the output market also. And is that also
7	revenue weighting, right?	7	North America?
8	A. I think that under the	8	A. Yes.
9	under the indirect approach and under	9	Q. All right. The and in
10	only one pass through the indirect	10	terms of your SSNIP analysis all
11	approach, I weight fighters by by	11	right. So did you do well, my
12	revenues to make an inference about	12	colleague wants to know so it seems like
13	Zuffa's high shares in that relevant	13	a good question.
14	input market.	14	A. I'm sure it is.
15	Q. Right.	15	Q. In the out in the output
16	A. But as you know, that's only	16	market, what is being sold? In the
17	one of many, many approaches that allow	17	output markets that you have defined.
18	me to get to the conclusion of monopsony	18	A. Sure. I think that you
19	power.	19	are the production or the product that
20	-	20	is being produced are is live MMA
21	•	21	events and the revenue associated with
22	<ul><li>A. I actually prefer</li><li>Q. So let's return</li></ul>	22	
23		23	those events can take the form of gate
24		24	revenue or pay-per-view. That's from
24	Q. I thought you were.	24	from the consumer side. Of course,
	Page 287		Page 289
1	A. I prefer direct evidence	1	there's there's revenues from the
2	generally, and I think that I've I	2	advertiser's side as well.
3	offer a slew of evidence that speaks to	3	But I hope that answers your
4	how you can prove directly that Zuffa	4	question.
5	exercises monopsony power.	5	Q. All right. And does
6	Q. I understand that you	6	pay-per-view compete with broadcast?
7	offered direct and indirect evidence, but	7	MR. CRAMER: Objection to
8	I need to ask about them one at a time	8	form.
9	and we can cover both.	9	THE WITNESS: I did not
10	A. Okay.	10	conduct that inquiry.
11	Q. So in terms of when you	11	BY MR. ISAACSON:
12	define a market, can you describe to me a	12	Q. Do you have an opinion one
13	situation where if you use revenue	13	way or another about that?
14	weighting in the input market, where	14	A. No.
15	1 2	15	Q. All right. With respect to
16		16	the does do the live venue events
17	market?	17	compete with pay-per-view events?
18	MR. CRAMER: Incomplete	18	A. I don't even understand the
19	hypothetical, form.	19	question. Many of the pay-per-view
20	THE WITNESS: I've never	20	events are live.
21	given thought to that, and I'd	21	Q. Meaning I watch it on
22	like to think about it and maybe	22	pay-per-view as opposed to go see it
23	we'll come back. But I don't	23	live.
24	think I'm prepared to to	24	A. I haven't I haven't

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1	studied that and I imagine for someone	1	to
2	who lives very far from the venue where	2	MR. CRAMER: Okay.
3	the live event is staged, they would not	3	MR. ISAACSON: I'm not going
4	be considered reasonably close	4	to ask him to recite all the
5	substitutes.	5	documentary evidence.
6	Q. So for your input markets,	6	BY MR. ISAACSON:
7	what evidence did you take into account	7	Q. And I understand that
8	to assess customer's likely response to	8	there's documentary evidence that you're
9	price increase in the SSNIP analysis?	9	not reciting today.
10	And feel free to point me to the sections	10	Okay. Other than the record
11	of your report that	11	evidence of the about sub
12	A. Did you mean to say I	12	perceptions of substitutability from the
13	think you just conflated the input	13	stakeholders, what would be other parts
14	markets and customers. Maybe we should	14	of your SSNIP analysis for the input
15	start over.	15	market?
16	Q. Yes, I said price increase	16	A. I would direct you to
17	rather than wage decrease, but let me	17	Section 3A 1 for all of the evidence that
18	just put it this way: What evidence in	18	I used to inform the construction of the
19	your report did you take into account to	19	relevant input market.
20	assess the likely response to a SSNIP in	20	Q. That would be the record
21	the input markets?	21	evidence that you were referring to?
22	A. Sure. So there it's the	22	A. Well, record evidence is
23	perspective of the fighters not the	23	fairly broad, right, because it
24	customers. So I was tripping up over	24	encompasses almost everything. But I
	Page 291		Page 293
1	your	1	will point to me the what helps to
2	Q. Yes.	2	guide me to the findings that I made with
3	A injecting customers when	3	respect to the input market was the fact
4	we're talking about input markets.	4	that Zuffa was able to successfully
5	So I can take you to the	5	suppress fighter wages, wages either
6	relevant sections, and I will, but of	6	measured by by wage share, regression
7	course at high levels, I'm looking at	7	or by knowledge of the fact that wage
8	record evidence of of what fighters	8	shares were falling over time from
9	and promoters thought about substitution	9	26 percent to 18 percent, yet Zuffa did
10	possibilities as you if you were to	10	not suffer sufficient defection so as to
11	move away from Zuffa to counteract a	11	render that wage decrease unprofitable.
12	hypothetical wage cut.	12	Now, that that tells you,
13	Q. Okay. So the first thing	13	as a matter of economics, that a that
14	you looked at was record evidence of	14	a reasonable starting place for defining
15	substitution.	15	the contours of the relevant input market
16	A. Or the perception of	16	is just the fighters under Zuffa's
17	substitution from the stakeholders, the	17	control. That was the the first thing
18	fighters, the promoters, and I'll just	18	that occurred to me.
19	point you, if you	19	And once you once you
20	Q. That's that's sufficient	20	start there, you can start looking at
21	for for item 1.	21	record evidence to determine whether
22	MR. CRAMER: You asked him	22	additional fighters from from rival
23	to look at his report.	23	promotions ought to be included so that
24	MR. ISAACSON: I'm going	24	you eventually get to the smallest set of

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1	fighters such that a hypothetical	1	BY MR. ISAACSON:
2	monopsonist could profitably exercise	2	Q. So my actual question was
3	monopsony power.	3	I understand you're focused on that, but
4	Q. All right. And you said	4	my question is, did you look at whether
5	that Zuffa was able to successfully	5	Zuffa actually suppressed actual wages?
6	suppress fighter wages wage share.	6	A. Without controlling for
7	You were talking only about the share of	7	revenues, no. Because it's incorrect to
8	revenues there, correct?	8	do so.
9	A. Correct.	9	Q. So in performing your SSNIP
10	Q. Okay. You didn't look at	10	analysis for the input markets, is it
11	whether Zuffa actually suppressed wages	11	fair to say that you relied on the record
12	and whether fighters moved to did not	12	evidence about the issue of perceived
13	move to other promoters after reduced	13	substitution from the stakeholders along
14	wages?	14	with your observations that when Zuffa
15	MR. CRAMER: Compound,	15	suppressed fighter wage shares, there
16	objection to form.	16	weren't significant defections?
17	THE WITNESS: Actually, if	17	A. I think I think that
18	you take wage shares down from	18	encompasses a lot. I also think that
19	26 percent to 18 percent and you	19	Zuffa in its ordinary course of business
20	hold an event revenues constant,	20	made use of a FightMetrics (sic)
21	that's a decrease in the absolute	21	database. I had the very first thing
22	wage for the fighter.	22	I did when I when I got this case was
23	So I don't I don't	23	I started reading the economic literature
24	automatically except that every	24	on the MMA industry, and almost every
	Page 295		Page 297
1	fighter was improved as they	1	article I read, the FightMetrics (sic)
2	marched from a 26 percent wage	2	database formed the foundation of their
3	share at Zuffa to an 18 percent	3	empirical analysis.
4	wage share.	4	So I thought that that was a
5	BY MR. ISAACSON:	5	reasonable place to begin to posit what
6	Q. All right. But in your	6	the smallest set of fighters that could
7	in your hypothetical there you held	7	be under the control of a hypothetical
8	revenues constant. Did you look at, as	8	monopsony would be in order for it to
9	part of your analysis of the input market	9	exercise market power.
10	and defining that market, as to whether	10	Q. All right. Why did you use
11	Zuffa actually suppressed actual wages?	11	the smallest set of fighters not the
12	MR. CRAMER: Objection to	12	smallest amount of promoters?
13	form.	13	A. Well, because we're looking
14	BY MR. ISAACSON:	14	at the input market. The fighters form
15	Q. As opposed to wage share?	15	the elements of the input market. They
16	MR. CRAMER: Same objection.	16	happen to belong to promoters, but
17	THE WITNESS: I'm focused on	17	fighters are the elements or the
18	wage share, of course, because	18	ingredients.
19	it's the right thing to look at	19	But I'm if I'm a
20	from an economic perspective.	20	fighter just to make it clear, if I'm
21	We're trying to measure	21	a fighter and I'm thinking about
22	exploitation, and the textbooks	22	substituting, defecting from UFC and
23	tell you to do it as a share of	23	going to a rival promotion, I don't care
24	marginal revenue product.	24	what the name of the promotion is or

1 321, that we came to outside of 2 the record evidence 3 BY MR. ISAACSON: 4 Q. Okay. 5 A that speak to, for 6 example, whether wrestling would be 7 perceived as a as a reasonable 8 substitute from the perceptive of 9 consumers to a live MMA event. I think 10 that those Forbes articles and the record 11 evidence and knowledge that Zuffa was 12 able to profitably impose a price 13 increase on pay-per-view, all guided me 14 in reaching the final conclusion as to 15 the relevant output market. 16 Q. I'm going to have you repeat 17 that because that was at the end of a 18 very long answer about what you were 19 to not sup of the profit output market. 2 BY MR. ISAACSON: 3 Q. Can you quantify that tax 4 for me? 5 A. I'm not sure I'm able to 6 that quantify the sponsorship tax. 7 Q. Okay. The second type of 8 direct evidence you talk about is the 9 direct is the evidence to restrict th 10 supply of fighter services, and you tall about Zuffa consistently maintains 12 about Zuffa consistently maintains 12 significantly more fighters under 13 contract than it could use. 14 Now, when you say 15 the relevant output market. 15 consistently, what years are you 16 referring to? 17 A. The class period. 18 Very long answer about what you were	
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that because that was at the end of a 17 A. The class period.	
18 very long answer about what you were 18 O And so it's your opinion	
going to look at. Or I'll repeat it to 19 that consistently throughout the class	3
20 you. 20 period, that Zuffa maintained	
In doing your SSNIP analysis 21 significantly more fighters under	
for the output markets, you relied on 22 contract than it could use?	
Forbes articles and record evidence that 23 A. Yes.	
24 caused you to conclude that Zuffa would 24 Q. And when you say "than it	
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1 be able to profitably impose along 1 could use," do you mean that it was	
2 with knowledge that Zuffa was profitably 2 unable to give those fighters give	
3 impose a price increase on pay-per-view 3 fights to those fighters?	
4 to reach your conclusions as to the 4 MR. CRAMER: Objection	Ю.
5 relevant output market? 5 form.	
6 A. That's fair. 6 THE WITNESS: It was una	ble
7 Q. And your direct evidence is 7 to give fights to fighters in a	
8 discussed on page 98 beginning on page 8 timely fashion.	
9 98. 9 BY MR. ISAACSON:	
10 A. Uh-huh. 10 Q. All right. And when you sa	
Q. All right. The first item 11 a timely fashion, do were they able	e to
of direct evidence is the power to  12 give the fights to the fighters within	
13 suppress fighter competition below  13 the time period of the contract?  14 competitive levels  15 MP, CP AMER: Objection to the contract of the contract o	
14 competitive levels. 14 MR. CRAMER: Objection to 15 And you list several items. 15 form.	.0
15 And you list several items. 15 form. 16 Each of those relate to reduced fighter 16 THE WITNESS: I'm I'm	
17 share; that is, the share of revenues 17 hesitating because I'm aware of	
18 other than your reference to its 18 record evidence suggesting that	
19 sponsorship tax. 19 Zuffa on occasion would toll the	
20 Do I understand that right? 20 clock either for real or imagined	
21 A. Yes. 21 injury or	
22 Q. Okay. The and how 22 BY MR. ISAACSON:	
23 significant was the sponsorship tax? 23 Q. All right. But I'm I'm	
MR. CRAMER: Objection to 24 talking about a fighter who is ready,	

	Page 314		Page 316
1		1	
1	willing and able to fight.	1   2	evidence where the fighter was not offered the contracted for number of
2	A. Yes. I've got record		bouts within the term of the contract?
3	evidence of Zuffa denying that fighter a	3	
4	fight. Yes, I do.	4	MR. CRAMER: Object to the
5	Q. Within the time period of	5	extent that calls for a legal
6	the contract?	6	conclusion. Form.
7	MR. CRAMER: Objection to	7	THE WITNESS: I I'm
8	the form.	8	recalling episodes where fighters
9	THE WITNESS: Yes, within	9	were complaining about not getting
10	the time period of the contract.	10	fights, but I and I cite those,
11	BY MR. ISAACSON:	11	I'm sure you're aware of that.
12	C	12	But sitting here, I can't
13	A. The fighters were	13	tell you whether the term expired
14	complaining that they were having to wait	14	on by virtue of the time
15	very long times in between fights and	15	running out or by virtue of the
16	they were worried about what that was	16	bouts being fought for those
17	doing to their careers, and you had	17	particular complaining fighters.
18	ι ε	18	BY MR. ISAACSON:
19	$\mathcal{E}$ II	19	Q. And you have the
20	fighters into fights.	20	understanding that if Zuffa failed to
21	So there was a there was	21	meet the bout commitment within the term
22	a problem, and it's a it's a	22	of the contract, it would be in breach of
23	convenient problem for a monopsonist, and	23	the contract?
24	it's it generates anticompetitive	24	MR. CRAMER: Objection to
	Page 315		Page 317
1	effects.	1	the term "bout commitment."
2	Q. So and you understand	2	Objection to the extent it calls
3	that these were these 30-months plus	3	for a legal conclusion.
4	contracts also would each provide for a	4	BY MR. ISAACSON:
5	certain number of bouts within the time	5	Q. By the bout commitment, I
6	period of the contract?	6	mean the number of bouts that were called
7	A. Yes.	7	for under the contract?
8	Q. Okay. Give me an example.	8	MR. CRAMER: Same objection.
9	A. Oh, a term the term of	9	THE WITNESS: Am I aware of
10	the contract would specify a combination	10	such a provision?
11	of bouts and time and say whichever one	11	BY MR. ISAACSON:
12	came first, would would trigger the	12	Q. Yes.
13		13	A. Yes.
14		14	Q. Okay. Are you can you
15	about it, it's conceivable that that	15	identify any record evidence of Zuffa
16	some terms could have been triggered by	16	breaching any of the agreements with
17	virtue of the time element as opposed to	17	fighters by failing to offer the required
18		18	number of bouts?
19	Q. So and I'm setting	19	MR. CRAMER: Objection, to
20	aside any contracts that were tolled.	20	the extent it calls for a legal
21	A. Sure.	21	conclusion, form.
22	Q. Just talking about the	22	THE WITNESS: Yeah, I wasn't
23	situation of a ready, willing and able	23	citing episodes of breaches of
24	fighter, can you tell me of any record	24	contracts. I think that what
4	righter, can you ten me of any fection	4	contracts. I tillik tilat wilat

	Page	318		Page 320
1	Zuffa was doing was was likely		1	was was keeping fighters out, in part
2	inside of the letter of the law of		2	to restrict the ability of rivals to
3	the contract, but nevertheless,		3	compete effectively.
4	they were strategically delaying		4	Q. Did you do anything to
5	fighters for many reasons,		5	replicate the work of that study?
6	including trying to lock a fighter		6	A. I did not. I did not
7	into the next contract.		7	replicate the work of that study.
8	BY MR. ISAACSON:		8	Q. Okay. And can you give me
9	Q. All right. The are you		9	any magnitude of fighters that that we
10	aware of an any plaintiff or proposed		10	are talking about. 50 fighters, 100
11	class member who has alleged that Zuffa		11	fighters in a year?
12	failed to failed to offer them the		12	MR. CRAMER: Objection to
13	number of bouts that were required under		13	form.
14	a contract within the term of that		14	THE WITNESS: I don't have
15	agreement?		15	a I don't have a precise number
16	MR. CRAMER: Same objection.		16	for you.
17	Objection to form. Objection to		17	BY MR. ISAACSON:
18	the extent it calls for a legal		18	Q. When you say significantly
19	conclusion.		19	more fighters, can you give me a range?
20	THE WITNESS: That's by		20	A. I don't know if I can
21	•		21	denominate it in terms of a range. The
22	memory, that's not that's not how I recall the evidence shaking		22	
23	out. The evidence shakes out in		23	mechanism here is denying rivals access
24	a in a different way.		24	to fighters and not being able to deploy
24	·	210	24	those assets in a timely fashion. That's
	Page	319		Page 321
1	BY MR. ISAACSON:		1	the that's the mechanism.
2	Q. All right. When you say		2	Q. Right. But when you say in
3	significantly more fighters than it could		3	your report that they consistently
4	use, what's the magnitude of fighters		4	maintain significantly more fighters
5	that you're talking about?		5	under contract than they could use, was
6	A. Well, there's been a study		6	that more than ten fighters?
7	by by some economists looking at I		7	A. I believe so, but sitting
8	think trying to measure just by how much		8	here, I'm not in a position to give you a
9	the capacity problem was, but sitting		9	quantitative estimate.
10	here, I I can't tell you how big it		10	Q. All right. Would you be
11	was. I can only describe it in		11	able to say whether it was more than 50?
12	qualitative terms.		12	A. Sitting here, I don't think
13	Q. All right. The study did		13	I can, but it's conceivable I can do
14	you do any the study that you're		14	that. If that were an assignment, I
15	referring to is quoted in your report?		15	could go try to estimate that.
16	A. Yes.		16	Q. Well, I'm not asking to give
17	Q. Did you do anything to		17	you I'm not trying to give you new
18	validate or assess the data in that		18	assignments, I'm trying to understand
19	study?		19	what you mean by what you meant
20	A. Well, sure, I looked at		20	what you mean when you wrote
21	record evidence. I saw Silva saying as		21	significantly?
22	much. I saw fighters in the record		22	A. Oh, I wrote significantly
23	saying as much. I mean, everything was		23	because there were third parties, I'm
24	pointing to the notion that that Zuffa		24	thinking of folks like Deutsche Bank, who

	Page 330		Page 332
1		1	
1 2	restriction in the pay-per-view output of marquee events between 2010 and 2015?	1   2	record. (Recess.)
3	A. Yes. That's what a	3	THE VIDEOGRAPHER: The time
4		4	is 4:31 PM. We have been on the
5	pay-per-view event is. I mean, you're		
6	not going to sell a pay-per-view event	5	record for five hours and
	unless you have headliner fighters in it.	6	36 minutes.
7	Q. So you're characterizing all	7	MR. CRAMER: All right. We
8	of the pay-per-view events as marquee	8	have no questions.
9	events when you say marquee events?	9	MR. ISAACSON: Thanks.
10	A. I think that you might be	10	MR. CRAMER: Let's go off
11	able to find counterexamples, a handful	11	the record.
12	of counterexamples of a pay-per-view that	12	THE VIDEOGRAPHER: All
13	doesn't feature a headliner, but in	13	right. The time is 4:31 PM.
14	general it would be really hard to sell	14	This concludes the
15	it unless it featured a headliner.	15	deposition and this is the end of
16	Q. Right. And did the and	16	Disk 3.
17	if Zuffa if a firm decided that it	17	(Witness excused.)
18	wanted to move marquee events from	18	(Deposition concluded at
19	pay-per-view to broadcast, would you	19	approximately 4:31 PM.)
20	consider that direct evidence of power to	20	
21	restrict supply?	21	
22	MR. CRAMER: Incomplete	22	
23	hypothetical, form.	23	
24	THE WITNESS: Well, you're	24	
	Page 331		Page 333
1	asking me to assume something that	1	G177 F177 G 1 F77
2	I understand to be an unprofitable	2 3	CERTIFICATE
3	move.	4	
4	But if if your experts	5	I HEREBY CERTIFY that the
5	can show evidence that these	6	witness was duly sworn by me and that the deposition is a true record of the
6	marquee events moved one-for-one		testimony given by the witness.
7	from pay-per-view to to	7	It was as assessed before
8	television, I'd be happy to	8	It was requested before completion of the deposition that the
9	consider such evidence. But I		witness, HAL J. SINGER, Ph.D., have the
10	don't have an opinion on it right	9	opportunity to read and sign the deposition transcript.
11	now.	10	deposition transcript.
12	Q. Okay.	11	
13	THE VIDEOGRAPHER: Excuse	12	Constance S. Kent, CCR, RPR,
14	me, Counsel. We're approaching	13	Certified Court Reporter
15	ten minutes left on the disk.		Registered Professional Reporter
16	MR. ISAACSON: I think I'm	14	Certified LiveNote Reporter and Notary Public in and for the
17	done.	15	Commonwealth of Pennsylvania
18	Give me one minute, but I	1.0	Dated: October 1, 2017
19	think I'm about done for the day.	16   17	
20	Give us a minute.	18	
21	MR. CRAMER: Let's go off	19	(The foregoing contification
22	the record.	20 21	(The foregoing certification of this transcript does not apply to any
23	THE VIDEOGRAPHER: The time	22	reproduction of the same by any means,
24	is 4:28 PM. We are going off the	23 24	unless under the direct control and/or supervision of the certifying reporter.)
	15 T.20 I IVI. WE are going off the	44	supervision of the certifying reporter.)



	Page 334		Page	336
1 2	INSTRUCTIONS TO WITNESS	1 2	ACKNOWLEDGMENT OF DEPONENT	
3	Please read your deposition	3	ACKNOWEEDOMENT OF DEFONENT	
4	over carefully and make any necessary	4	I,, do hereby certify that I have read the	
5	corrections. You should state the reason	5	hereby certify that I have read the	
6	in the appropriate space on the errata	6	foregoing pages, 1 - 337, and that the	
7	sheet for any corrections that are made.	7 8	same is a correct transcription of the answers given by me to the questions	
8	After doing so, please sign	9	therein propounded, except for the	
9	the errata sheet and date it.	10	corrections or changes in form or	
10	You are signing same subject	11	substance, if any, noted in the attached	
11	to the changes you have noted on the	12	Errata Sheet.	
12	errata sheet, which will be attached to	13		
13	your deposition.	14 15		
14 15	It is imperative that you return the original errata sheet to the	16	HAL J. SINGER, Ph.D. DATE	-
16	deposing attorney within thirty (30) days	17	THE S. SHAGER, THE	
17	of receipt of the deposition transcript	18		
18	by you. If you fail to do so, the	19		
19	deposition transcript may be deemed to be	20	Subscribed and sworn	
20	accurate and may be used in court.	21	to before me this day of, 20	
21	•	22	My commission expires:	
22		23	my commission expires.	
23				
24		24	Notary Public	
	Page 335		Page	337
1		1	LAWYER'S NOTES	
	ERRATA	2	PAGE LINE	
2	DACE LINE CHANCE	3		
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